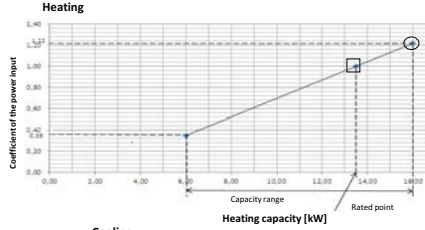
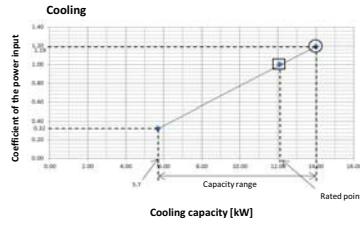


6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZASG125MV1 RZASG125MY1



Symbols
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EWB: Entering wet-bulb temperature (°C WB)
 EDB: Entering dry-bulb temperature (°C DB)
 TC: Maximum total cooling/heating capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 PI: Power input [kW]
 compressor + indoor and outdoor fan motors

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions
- = Rated capacity and rated coefficient of the power input
- The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units EWB & EDB.
- SHC for other dry-bulb temperatures = SHC + SHC*
- Not SHC + SHC correction for other dry-bulb temperatures
 SHC* = SHC × (1 - BF) × (DB* - EDB)
 * = 0.02 × AFR (m³/min) × (1 - BF) × (DB* - EDB)
- The capacities are based on the following conditions:
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

Pair	Indoor					
	FCAG125A	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR	26.0	39.0	28.0	31.0	32.5	34.0
(BF)	(0.23)	(0.16)	(0.16)	(0.14)	(0.15)	(0.06)

Twin	Indoor					
	FCAG60A X 2	FHA60A X 2	FFA60A X 2	FDXM60F3 X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 × 2	19.5 × 2	14.5 × 2	16.0 × 2	18.0 × 2	16.0 × 2
(BF)	(0.2 × 2)	(0.20 × 2)	(0.11 × 2)	(0.12 × 2)	(0.18 × 2)	(0.12 × 2)

Triple	Indoor					
	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR	12.5 × 3	15.0 × 3	12.0 × 3	15.8 × 3	15.0 × 3	15.0 × 3
(BF)	(0.22 × 3)	(0.18 × 3)	(0.16 × 3)	(0.11 × 3)	(0.13 × 3)	(0.11 × 3)

Double twin	Indoor					
	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 × 4	14.0 × 4	10.0 × 4	8.7 × 4	15.0 × 4	8.7 × 4
(BF)	(0.4 × 4)	(0.17 × 4)	(0.25 × 4)	(0.17 × 4)	(0.08 × 4)	(0.17 × 4)

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	14.10	9.54	0.97	13.60	9.30	1.08	13.10	9.12	1.18	12.60	8.78	1.28
18.0	25	14.70	9.50	0.97	14.20	9.32	1.08	13.70	9.09	1.19	13.20	8.83	1.30
19.0	27	15.00	9.52	0.99	14.50	9.34	1.09	14.00	9.06	1.19	13.50	8.87	1.29
19.5	27	15.20	9.52	0.99	14.70	9.26	1.09	14.20	9.08	1.19	13.60	8.81	1.30
22.0	30	16.00	9.39	0.99	15.50	9.14	1.09	14.90	8.95	1.20	14.40	8.74	1.31
24.0	32	16.70	9.31	1.00	16.10	9.09	1.11	15.50	8.83	1.21	15.00	8.63	1.32

Indoor	Outdoor temperature (°C WB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB
16	10.7	0.93	1.18	0.99	1.26	1.02	1.30	1.05	1.60	1.12	1.73	1.18
18	10.7	0.97	1.18	1.02	1.25	1.07	1.29	1.10	1.60	1.17	1.73	1.23
20	10.7	1.01	1.18	1.07	1.25	1.11	1.29	1.14	1.60	1.22	1.73	1.28
21	10.7	1.05	1.18	1.09	1.25	1.13	1.29	1.16	1.60	1.24	1.73	1.31
22	10.7	1.04	1.18	1.10	1.25	1.14	1.29	1.18	1.60	1.27	1.73	1.33
24	10.7	1.09	1.18	1.15	1.25	1.19	1.29	1.22	1.60	1.31	1.73	1.39

Pair	Indoor					
	FCAG125A	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	4.95	4.73	5.11	4.79	5.37	4.84
Heating	3.44	3.18	3.60	3.35	3.24	3.23

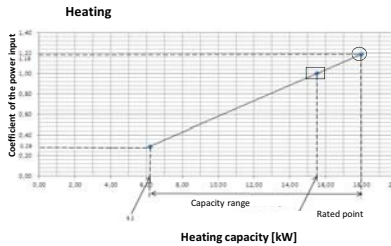
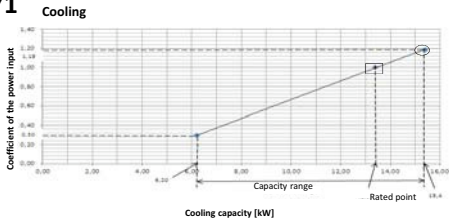
Twin	Indoor					
	FCAG60A X 2	FHA60A X 2	FFA60A X 2	FDXM60F3 X 2	FBA60A X 2	FNA60A X 2
Cooling	4.15	6.21	6.01	3.87	4.28	3.87
Heating	3.29	3.23	3.39	3.29	3.15	3.29

Triple	Indoor					
	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
Cooling	3.74	4.42	4.65	3.37	4.08	3.37
Heating	2.94	2.94	3.18	2.92	3.08	2.92

Double twin	Indoor					
	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35A X 4
Cooling	3.34	2.89	4.00	3.80	3.83	3.80
Heating	2.63	2.75	3.33	3.20	2.80	3.20

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RZASG140MV1 RZASG140MY1



Symbols
 AFR: Air flow rate (m³/min)
 BF: Bypass factor
 EWB: Entering wet-bulb temperature (°C WB)
 EDB: Entering dry-bulb temperature (°C DB)
 TC: Maximum total cooling/heating capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 PI: Power input [kW]
 compressor + indoor and outdoor fan motors

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions
- = Rated capacity and rated coefficient of the power input
- The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units EWB & EDB.
- Not SHC for other dry-bulb temperatures = SHC + SHC*
- SHC* = SHC × (1 - BF) × (DB* - EDB)
 * = 0.02 × AFR (m³/min) × (1 - BF) × (DB* - EDB)
- The capacities are based on the following conditions:
 Outdoor air: 85% RH
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0m
- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

Pair	Indoor			
	FCAG140A	FVA140A	FHA140A	FBA140A
AFR	26.0	30.0	34.0	34.0
(BF)	(0.23)	(0.18)	(0.17)	(0.06)

Twin	Indoor					
	FCAG71A X 2	FAA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FVA71A X 2
AFR	15.3 × 2	18.0 × 2	20.5 × 2	23.0 × 2	18.0 × 2	18.0 × 2
(BF)	(0.14 × 2)	(0.16 × 2)	(0.13 × 2)	(0.24 × 2)	(0.13 × 2)	(0.16 × 2)

Triple	Indoor					
	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F3 X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 × 3	15.0 × 3	12.0 × 3	15.8 × 3	15.0 × 3	16.0 × 3
(BF)	(0.22 × 3)	(0.18 × 3)	(0.16 × 3)	(0.11 × 3)	(0.13 × 3)	(0.11 × 3)

Double twin	Indoor					
	FCAG35A X 4	FHA35A X 4	FFA35A X 4	FDXM35F3 X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 × 4	14.0 × 4	10.0 × 4	8.7 × 4	15.0 × 4	8.7 × 4
(BF)	(0.4 × 4)	(0.20 × 4)	(0.25 × 4)	(0.17 × 4)	(0.08 × 4)	(0.17 × 4)

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	15.5	10.47	0.98	14.9	10.25	1.08	14.4	10.08	1.18	13.9	9.69	1.28
18.0	25	16.2	10.35	0.98	15.6	10.21	1.09	15.1	10.04	1.19	14.5	9.71	1.30
19.0	27	16.6	10.43	0.99	16.0	10.18	1.09	15.4	9.98	1.19	14.8	9.76	1.30
19.5	27	16.7	10.49	0.99	16.1	10.16	1.10	15.6	10.00	1.19	15.0	9.66	1.30
22.0	30	17.6	10.37	0.99	17.0	10.16	1.10	16.4	9.83	1.21	15.8	9.60	1.31
24.0	32	18.4	10.20	1.00	17.7	10.00	1.11	17.0	9.67	1.22	16.4	9.47	1.32

Indoor	Outdoor temperature (°C WB)											
	-15.0		-10.0		-5.0		0.0		6.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°C DB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB	°C WB
16	11.6	0.91	1.27	0.97	1.26	1.00	1.29	1.03	1.50	1.09	1.94	1.16
18	11.6	0.95	1.27	1.00	1.25	1.04	1.29	1.07	1.50	1.14	1.94	1.21
20	11.6	0.99	1.27	1.05	1.25	1.09	1.29	1.11	1.50	1.19	1.94	1.25
21	11.6	1.00	1.27	1.06	1.25	1.11	1.29	1.13	1.50	1.21	1.94	1.28
22	11.6	1.02	1.27	1.08	1.25	1.12	1.29	1.16	1.50	1.24	1.94	1.30
24	11.6	1.07	1.26	1.12	1.25	1.17	1.29	1.20	1.50	1.29	1.94	1.35

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