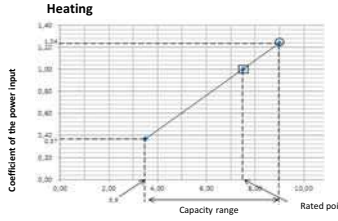
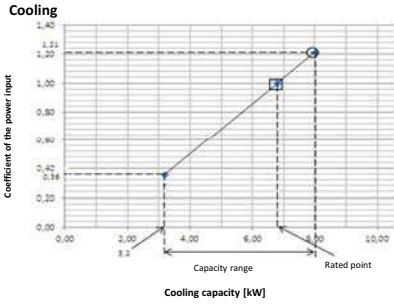


6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

6

RZASG71MV1



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

Notes

- 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*
 SHC*SHC correction for other dry-bulb temperatures
 = 0.02 x AFR (m³/min) x (1-BF) x (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.

Heating capacity [kW]

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	7.29	4.95	0.92	7.28	4.99	1.08	7.50	5.21	1.20	7.20	5.06	1.32
18.0	25	8.37	5.43	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.52	5.04	1.34
19.0	27	8.54	5.41	1.01	8.28	5.31	1.11	8.00	5.18	1.21	7.68	5.03	1.34
19.5	27	8.63	5.40	1.01	8.37	5.30	1.11	8.08	5.17	1.21	7.76	5.03	1.34
22.0	30	9.07	5.33	1.03	8.80	5.23	1.12	8.51	5.12	1.22	8.16	4.97	1.35
24.0	32	9.43	5.25	1.03	9.15	5.16	1.13	8.85	5.05	1.23	8.51	4.90	1.36

Heating

Indoor	Outdoor temperature (°C WB)											
	-15		-10		-5		0		5		10	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	5.14	0.89	5.68	0.94	6.22	0.98	6.75	1.03	9.02	1.08	9.72	1.13
18	5.14	0.92	5.67	0.97	6.21	1.02	6.74	1.07	9.01	1.12	9.70	1.18
20	5.13	0.96	5.67	1.01	6.20	1.06	6.73	1.11	9.00	1.17	9.69	1.23
21	5.13	0.98	5.66	1.03	6.20	1.08	6.73	1.13	9.00	1.19	9.69	1.25
22	5.12	0.99	5.66	1.04	6.19	1.10	6.73	1.15	8.99	1.22	9.68	1.28
24	5.12	1.03	5.65	1.09	6.19	1.14	6.72	1.20	8.98	1.26	9.66	1.32

Pair

	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
AFR	15.3	18.0	18.0	20.5	23.0	18.0
(BF)	(0.14)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Twin

	FCAG35A X 2	FHA35A X 2	FFA35A X 2	FDXM35F3 X 2	FBA35A X 2	FNA35A X 2
AFR	12.5 x 2	14.0 x 2	10.0 x 2	8.7 x 2	15.0 x 2	8.7 x 2
(BF)	(0.4 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Pair

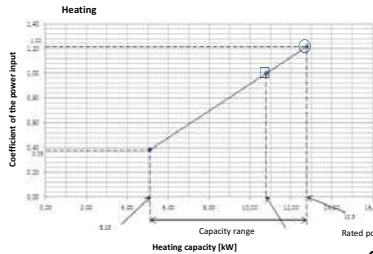
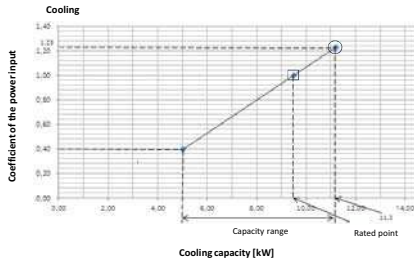
	FCAG71A	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	2.17	2.00	2.01	1.78	1.77	1.89
Heating	2.38	2.09	2.25	2.00	1.85	2.09

Twin

	FCAG35A X 2	FHA35A X 2	FFA35A X 2	FDXM35F3 X 2	FBA35A X 2	FNA35A X 2
Cooling	1.81	1.47	2.08	1.77	1.78	1.77
Heating	1.89	1.55	2.80	2.02	1.62	2.02

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RZASG100MV1 RZASG100MY1



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

Notes

- 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*
 SHC*SHC correction for other dry-bulb temperatures
 = 0.02 x AFR (m³/min) x (1-BF) x (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.

Cooling

Indoor	Outdoor temperature (°C DB)															
	25				30				35				40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°CWB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	11.2	7.61	1.08	11.09	7.44	1.11	11.05	7.39	1.10	11.01	7.00	1.10	11.01	7.00	1.10
18.0	25	11.8	7.59	1.08	11.4	7.49	1.12	11.0	7.27	1.10	11.05	7.00	1.10	11.05	7.00	1.10
19.0	27	12.0	7.57	1.02	11.6	7.44	1.12	11.2	7.26	1.09	11.09	7.04	1.10	11.09	7.04	1.10
19.5	27	12.1	7.59	1.02	11.7	7.37	1.13	11.4	7.24	1.10	11.09	7.04	1.10	11.09	7.04	1.10
22.0	30	12.8	7.52	1.02	12.4	7.39	1.13	11.9	7.16	1.14	11.5	7.03	1.12	11.5	7.03	1.12
24.0	32	13.3	7.42	1.03	12.9	7.27	1.14	12.4	7.06	1.16	12.0	6.91	1.16	12.0	6.91	1.16

Heating

Indoor	Outdoor temperature (°C WB)											
	-15.0		-10.0		-5.0		0.0		5.0		10.0	
	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI	TC	CPI
°CDB	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	8.58	0.93	9.45	0.99	10.1	1.02	10.4	1.05	12.8	1.17	13.8	1.18
18	8.57	0.97	9.44	1.02	10.0	1.07	10.3	1.10	12.8	1.17	13.8	1.23
20	8.56	1.01	9.43	1.07	10.0	1.11	10.3	1.14	12.8	1.22	13.8	1.28
21	8.56	1.03	9.42	1.09	10.0	1.13	10.3	1.16	12.8	1.24	13.8	1.30
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.33
24	8.54	1.09	9.41	1.15	10.0	1.19	10.3	1.29	12.8	1.51	13.8	1.38

Pair

	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
AFR	22.8	26.0	28.0	38.0	31.0	29.0
(BF)	(0.17)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)

Twin

	FCAG50A X 2	FHA50A X 2	FFA50A X 2	FDXM50F3 X 2	FNA50A X 2
AFR	12.6 x 2	15.0 x 2	12.0 x 2	15.8 x 2	16.0 x 2
(BF)	(0.22 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.11 x 2)

Triple

	FCAG35A X 3	FHA35A X 3	FFA35A X 3	FDXM35F3 X 3	FNA35A X 3
AFR	12.5 x 3	14.0 x 3	10.0 x 3	8.7 x 3	8.7 x 3
(BF)	(0.4 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.17 x 3)

Pair

	FCAG100A	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2.92	3.52	2.97	2.97	2.97	2.97
Heating	3.45	3.98	3.47	3.43	3.20	3.32

Twin

	FCAG50A X 2	FHA50A X 2	FFA50A X 2	FDXM50F3 X 2	FNA50A X 2
Cooling	2.57	2.97	3.39	2.44	2.44
Heating	3.33	3.26	3.89	2.96	2.96

Triple

	FCAG35A X 3	FHA35A X 3	FFA35A X 3	FDXM35F3 X 3	FNA35A X 3
Cooling	2.32	2.16	2.71	2.57	2.57
Heating	2.73	2.66	3.87	3.13	3.13

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