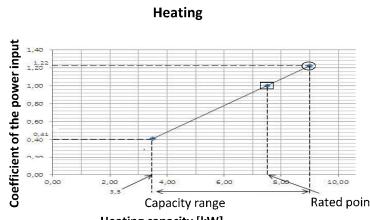
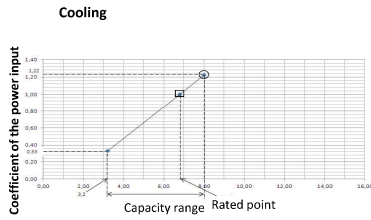


6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

6

RZAG71NV1 RZAG71NY1



- 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

Cooling

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
°C WB	°C DB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	
16.0	22	8.03	5.45	1.00	7.76	5.32	1.11	7.68	5.25	1.21	7.21	5.06	1.32
18.0	25	8.46	5.45	1.00	8.11	5.32	1.11	7.83	5.19	1.22	7.34	5.05	1.33
19.5	27	8.59	5.45	1.00	8.30	5.32	1.12	8.00	5.18	1.22	7.70	5.05	1.33
19.5	27	8.68	5.41	1.00	8.39	5.31	1.12	8.09	5.17	1.21	7.70	5.05	1.33
20.0	30	9.15	5.38	1.01	8.81	5.25	1.12	8.52	5.13	1.21	8.21	4.99	1.34
24.0	32	9.52	5.31	1.00	9.20	5.19	1.13	8.97	5.06	1.25	8.54	4.92	1.35

Heating

Indoor	Outdoor temperature (°C WB)													
	-15.0			-10.0			-5.0			0.0			10.0	
°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	
16	6.44	0.98	7.09	0.99	7.85	1.02	7.79	1.06	9.00	1.12	9.21	1.19	1.24	
18	6.45	0.98	7.08	1.00	7.84	1.02	7.78	1.10	9.00	1.14	9.21	1.24	1.24	
20	6.42	1.01	7.07	1.02	7.83	1.12	7.77	1.14	9.00	1.22	9.21	1.28	1.28	
21	6.42	1.02	7.07	1.09	7.82	1.13	7.77	1.16	9.00	1.24	9.21	1.31	1.31	
22	6.42	1.05	7.06	1.11	7.82	1.15	7.76	1.19	9.00	1.27	9.21	1.33	1.33	
24	6.41	1.09	7.05	1.15	7.81	1.20	7.75	1.23	9.00	1.32	9.07	1.38	1.38	

- 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.

- 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.

Corresponding refrigerant piping length: 5.0 m

Level difference: 0m

Pair

Pair	FCAG71H	FCAG71B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
AFR	21.2	15.3	18.0	18.0	20.5	23.0	18.0
(BF)	(0.20)	(0.14)	(0.16)	(0.16)	(0.13)	(0.24)	(0.13)

Pair

Pair	FCAG71H	FCAG71B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	1.65	1.92	2.08	2.08	1.81	1.77	2.00
Heating	1.60	2.02	2.19	2.21	1.90	1.73	1.99

Twin

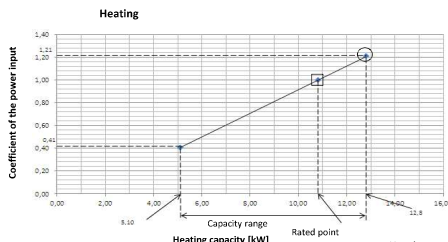
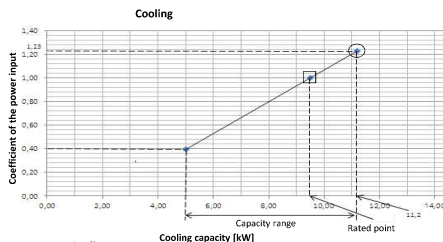
AFR	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F X 2	FBA35A X 2	FNA35A X 2
(BF)	(0.40 x 2)	(0.17 x 2)	(0.25 x 2)	(0.17 x 2)	(0.08 x 2)	(0.17 x 2)

Twin

AFR	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F X 2	FBA35A X 2	FNA35A X 2
Cooling	1.56	1.53	1.75	1.64	1.67	1.68
Heating	1.59	1.69	2.25	1.84	1.90	1.86

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RZAG100NV1 RZAG100NY1



- 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

Cooling

Indoor	Outdoor temperature (°C DB)												
	25			30			35			40			
°C WB	°C DB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	
16.0	22	11.80	7.61	1.01	10.88	7.44	1.11	10.50	7.29	1.21	9.11	7.09	1.32
18.0	25	11.80	7.55	1.01	11.37	7.49	1.12	11.00	7.27	1.23	10.55	7.09	1.33
19.5	27	12.00	7.57	1.02	11.62	7.44	1.12	11.20	7.26	1.23	10.80	7.04	1.33
19.5	27	12.15	7.59	1.02	11.74	7.37	1.13	11.43	7.24	1.23	10.98	7.04	1.34
20.0	30	12.80	7.52	1.02	12.37	7.36	1.13	11.80	7.16	1.24	11.52	7.03	1.35
24.0	32	13.80	7.42	1.00	12.88	7.27	1.14	12.40	7.06	1.25	11.97	6.91	1.36

Heating

Indoor	Outdoor temperature (°C WB)													
	-15.0			-10.0			-5.0			0.0			10.0	
°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	—	°C DB	°C WB	
16	8.55	0.95	9.44	0.98	10.1	1.02	10.4	1.05	12.8	1.11	13.8	1.18	1.23	
18	8.57	0.97	9.44	1.02	10.0	1.06	10.3	1.09	12.8	1.16	13.8	1.23	1.23	
20	8.56	1.00	9.42	1.06	10.0	1.11	10.3	1.13	12.8	1.21	13.8	1.27	1.27	
21	8.56	1.02	9.42	1.08	10.0	1.12	10.3	1.15	12.8	1.23	13.8	1.28	1.28	
22	8.55	1.04	9.42	1.10	10.0	1.14	10.3	1.18	12.8	1.26	13.8	1.32	1.32	
24	8.54	1.06	9.41	1.14	10.0	1.18	10.3	1.22	12.8	1.31	13.8	1.37	1.37	

- 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.

- 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.

Corresponding refrigerant piping length: 5.0 m

Level difference: 0m

Pair

Pair	FCAG100H	FCAG100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
AFR	37.3	27.8	26.0	26.0	31.0	34.0	29.0
(BF)	(0.17)	(0.17)	(0.19)	(0.19)	(0.09)	(0.20)	(0.09)

Pair

Pair	FCAG100H	FCAG100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2.25	2.65	2.54	2.66	2.31	2.66	2.58
Heating	2.16	3.01	3.41	2.73	2.72	2.68	2.79

Twin

AFR	FCAG50B X 2	FHA50A X 2	FFA50A X 2	FDXM50F X 2	FBA50A X 2	FNA50A X 2
(BF)	(0.22 x 2)	(0.18 x 2)	(0.16 x 2)	(0.11 x 2)	(0.13 x 2)	(0.11 x 2)

Twin

AFR	FCAG50B X 2	FHA50A X 2	FFA50A X 2	FDXM50F X 2	FBA50A X 2	FNA50A X 2
Cooling	2.16	2.35	2.51	2.00	2.29	2.10
Heating	2.37	2.65	2.75	2.57	2.79	2.57

Triple

AFR	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A X 3	FNA35A X 3
(BF)	(0.40 x 3)	(0.17 x 3)	(0.25 x 3)	(0.17 x 3)	(0.08 x 3)	(0.17 x 3)

Triple

AFR	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A X 3	FNA35A X 3
Cooling	3.05	2.03	2.23	2.11	2.30	2.17
Heating	2.16	2.15	2.76	2.91	2.32	2.91

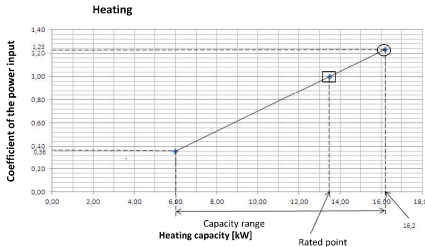
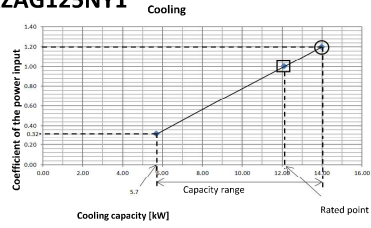
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6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG125NV1

RZAG125NY1



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

6

Cooling

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°WB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	14.10	9.54	0.99	14.10	9.30	1.09	14.10	9.12	1.19	12.60	8.76	1.29
18.0	25	14.70	9.90	0.99	14.70	9.32	1.09	14.70	9.09	1.20	12.90	8.90	1.30
19.5	27	15.00	9.52	1.00	14.50	9.34	1.10	14.00	9.06	1.20	11.50	8.87	1.31
20.5	27	15.21	9.52	1.00	14.68	9.36	1.11	14.15	9.06	1.20	11.64	8.81	1.31
22.0	30	16.00	9.79	1.00	15.47	9.34	1.11	14.90	8.95	1.21	14.58	8.71	1.32
24.0	32	16.70	9.31	1.01	16.10	8.99	1.11	15.50	8.83	1.23	14.97	8.69	1.33

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* is based on 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: 0 m

Pair

	FCAG125H	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR	33.5	26.0	28.0	31.0	32.5	34.0	—
(BF)	(0.19)	(0.21)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM50F X 2	FBA60A X 2	FNA60A X 2
AFR	13.4 x 2	12.5 x 2	14.5 x 2	16.0 x 2	18.0 x 2	16.0 x 2
(BF)	(0.20 x 2)	(0.20 x 2)	(0.11 x 2)	(0.12 x 2)	(0.18 x 2)	(0.12 x 2)

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.17 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Indoor

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	
°CDB	kW	kW	—	kW	—	kW	—	kW	—	kW	—	kW	—
16	11.0	0.94	12.1	1.00	12.9	1.03	13.2	1.06	16.2	1.13	17.5	1.20	
18	11.0	0.99	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.16	17.5	1.25	
20	11.0	1.02	12.0	1.00	12.9	1.10	13.2	1.15	16.2	1.22	17.5	1.30	
21	11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.26	17.5	1.32	
22	11.0	1.06	12.0	1.12	12.8	1.16	13.2	1.20	16.2	1.28	17.4	1.34	
24	11.0	1.10	12.0	1.19	12.6	1.21	13.2	1.24	16.2	1.33	17.4	1.39	

- 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

	FCAG125H	FCAG125B	FDA125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	3.15	3.65	28.0	31.0	32.5	34.0	—
Heating	3.08	3.82	3.26	3.84	3.36	3.40	3.15

Twin

	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM50F X 2	FBA60A X 2	FNA60A X 2
Cooling	2.76	2.83	3.35	3.26	3.28	2.65
Heating	3.49	3.27	3.58	3.03	3.82	3.04

Triple

	FCAG50A X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
Cooling	2.57	2.79	2.97	2.36	2.74	2.50
Heating	2.86	2.73	3.19	2.46	2.69	2.53

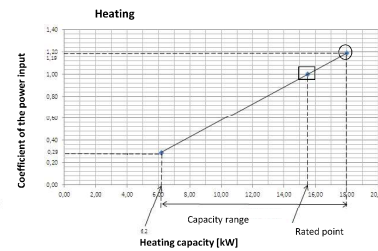
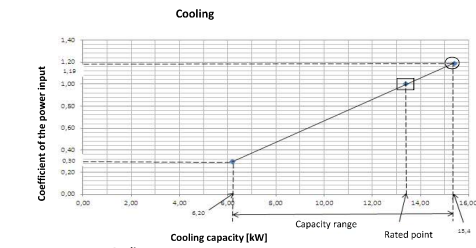
Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
Cooling	2.51	2.45	2.71	2.55	2.96	2.62
Heating	2.63	2.41	3.44	2.88	2.84	2.91

3D125182

RZAG140NV1

RZAG140NY1



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

Indoor

Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
°WB	°CDB	kW	kW	—	kW	kW	—	kW	kW	—	kW	kW	—
16.0	22	15.90	10.47	0.99	15.90	10.25	1.09	15.44	10.07	1.19	12.86	9.89	1.29
18.0	25	16.37	10.55	0.98	15.82	10.21	1.09	15.11	10.01	1.19	13.52	9.71	1.30
19.5	27	16.56	10.43	0.99	15.86	10.18	1.09	15.40	9.98	1.19	14.83	9.76	1.30
20.5	27	16.74	10.43	0.99	16.04	10.18	1.10	15.57	10.00	1.19	14.98	9.66	1.30
22.0	30	17.63	10.37	0.99	17.01	10.16	1.10	16.36	9.83	1.21	15.76	9.60	1.31
24.0	32	18.38	10.20	1.00	17.77	10.00	1.11	17.04	9.67	1.22	16.41	9.47	1.32

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* is based on 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: 0 m

Pair

	FCAG140H	FCAG140B	FVA140A	FHA140A	FBA140A
AFR	33.5	26.0	30.0	34.0	34.0
(BF)	(0.15)	(0.23)	(0.18)	(0.17)	(0.06)

Twin

	FCAG71H X 2	FCAG71B X 2	FVA71A X 2	FHA71A X 2	FBA71A X 2	FNA71A X 2
AFR	21.2 x 2	18.3 x 2	18.0 x 2	20.2 x 2	23.0 x 2	18.0 x 2
(BF)	(0.20 x 2)	(0.14 x 2)	(0.16 x 2)	(0.13 x 2)	(0.24 x 2)	(0.13 x 2)

Triple

	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
AFR	12.6 x 3	15.0 x 3	12.0 x 3	15.8 x 3	15.0 x 3	16.0 x 3
(BF)	(0.22 x 3)	(0.18 x 3)	(0.16 x 3)	(0.11 x 3)	(0.13 x 3)	(0.11 x 3)

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
AFR	12.5 x 4	14.0 x 4	10.0 x 4	8.7 x 4	15.0 x 4	8.7 x 4
(BF)	(0.40 x 4)	(0.20 x 4)	(0.25 x 4)	(0.17 x 4)	(0.08 x 4)	(0.17 x 4)

Pair

	FCAG140H	FCAG140B	FVA140A	FHA140A	FBA140A
Cooling	3.64	4.29	4.42	4.31	4.69
Heating	3.64	4.55	4.48	4.33	4.92

Twin

	FCAG71H X 2	FCAG71B X 2	FVA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FNA71A X 2
Cooling	2.80	3.15	3.27	3.01	3.08	2.97	3.33
Heating	3.03	3.09	3.67	3.50	3.28	3.55	3.92

Triple

	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
Cooling	2.88	3.14	3.37	2.65	3.06	2.79
Heating	3.44	3.29	3.87	2.96	3.23	3.03

Double twin

	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
Cooling	3.08	2.73	3.04	2.87	3.32	2.94
Heating	3.97	2.89	4.19	3.49	4.22	3.53

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