

Air Conditioning
Technical Data

RZAG-NY1



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RZAG-NY1

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1 Features

Industry leading technology in the most compact casing ever

- Unique, low-height single fan range
- Compact dimensions allow almost unnoticeable installation
- Marketing-leading serviceability and handling thanks to unique hinged door, 7-segment display and additional handle
- Top efficiency: - Energy labels up to A++ in both cooling and heating - compressor offers substantial efficiency improvements
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 85m
- Outdoor units for pair, twin, triple, double twin application



Infrastructure cooling



Inverter



Auto cooling-heating changeover

2 Specifications

2-1 Capacity and Power input				FCAHG71H/RZAG71NY1	FCAHG100H/ RZAG100NY1	FCAHG125H/ RZAG125NY1	FCAHG140H/ RZAG140NY1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			7.90	7.70	8.02	7.93
	ηs,c		%	-		318	314
	Annual energy consumption		kWh/a	301	432	905	1,014
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		4.13	4.23	3.84	3.68
		Power input	kW	1.65	2.25	3.15	3.64
	B Condition (30°C - 27/19)	Pdc	kW	5.01	7.00	8.92	9.88
		EERd		5.96	6.14	5.81	5.77
		Power input	kW	0.84	1.14	1.54	1.71
	C Condition (25°C - 27/19)	Pdc	kW	3.22	4.50	5.74	6.35
		EERd		10.2	9.32	9.63	9.37
		Power input	kW	0.32	0.48	0.60	0.68
	D Condition (20°C - 27/19)	Pdc	kW	2.64	3.71	3.61	
		EERd		14.60	12.87	13.99	14.07
		Power input	kW	0.18	0.29	0.26	
Space heating (Average climate)	Energy efficiency class			A+	A++	-	
	Capacity	Pdesign	kW	4.70	9.52		
	SCOP/A			4.56	4.75	4.53	4.44
	SCOPnet/A			4.56	4.75	4.53	4.44
	ηs,h		%	-		178	175
	Annual energy consumption		kWh/a	1,443	2,805	2,943	3,002
	Required back up heating cap at design conditions		kW	0.00			
	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	4.70	9.52		
		COPd (declared COP)		2.91	2.79	2.22	2.23
		Power input	kW	1.62	3.42	4.29	4.27
	TBivalent	Tbiv (bivalent temperature)	°C	-10			
		Pdh (declared heating cap)	kW	4.70	9.52		
		COPd (declared COP)		2.91	2.79	2.22	2.23
		Power input	kW	1.62	3.42	4.29	4.27
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.16	8.42		
		COPd (declared COP)		3.28	3.14	2.84	2.80
		Power input	kW	1.27	2.69	2.97	3.01
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.53	5.13		
		COPd (declared COP)		4.53	4.79	4.58	4.42
		Power input	kW	0.56	1.07	1.12	1.16
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.79	3.30		
		COPd (declared COP)		5.43	5.81	5.79	5.78
		Power input	kW	0.33	0.57		
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.01	2.58	2.60	
		COPd (declared COP)		6.79	6.86	6.62	6.60
		Power input	kW	0.30	0.38	0.39	
Cooling	Cdc (Degradation cooling)			0.25			
Heating	Cdh (Degradation heating)			0.25			
Cooling function included				Yes			
Heating function included				Yes			

2 Specifications

2-1 Capacity and Power input					FCAHG71H/RZAG71NY1	FCAHG100H/ RZAG100NY1	FCAHG125H/ RZAG125NY1	FCAHG140H/ RZAG140NY1
Average climate included					Yes			
Cold season included					No			
Warm season included					No			
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009			
		Heating	POFF	kW	0.009			
	Standby mode	Cooling	PSB	kW	0.009			
		Heating	PSB	kW	0.009			
	Thermostat-off mode	Cooling	PTO	kW	0.005			
		Heating	PTO	kW	0.013			
Indication if the heater is equipped with a supplementary heater (pair application)					No			
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0			

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

2-2 Capacity and Power input				FCAHG71B/RZAG71NY1	FCAHG100B/RZAG100NY1	FCAHG125B/RZAG125NY1	FCAHG140B/RZAG140NY1
Cooling capacity	Nom.	kW		6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.	kW		7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			6.83	7.14	7.15	6.80
	ηs,c		%	-		283	269
	Annual energy consumption		kWh/a	348	466	1,016	1,182
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.54	3.59	3.32	3.12
		Power input	kW	1.92	2.65	3.65	4.29
	B Condition (30°C - 27/19)	Pdc	kW	5.03	7.03	8.92	9.88
		EERd		5.43	5.83	5.65	4.47
		Power input	kW	0.93	1.21	1.58	2.21
	C Condition (25°C - 27/19)	Pdc	kW	3.20	4.46	5.74	6.35
		EERd		8.32	8.18	7.87	8.17
		Power input	kW	0.38	0.55	0.73	0.78
	D Condition (20°C - 27/19)	Pdc	kW	2.40	3.31	3.25	3.32
		EERd		12.31	13.03	12.77	13.55
		Power input	kW	0.20	0.25		

2 Specifications

2-2 Capacity and Power input					FCAG71B/RZAG71NY1	FCAG100B/RZAG100NY1	FCAG125B/RZAG125NY1	FCAG140B/RZAG140NY1
Space heating (Average climate)	Energy efficiency class				A+		-	
	Capacity	Pdesign	kW	4.70	7.80	9.52		
	SCOP/A			4.22	4.53	4.34		
	SCOPnet/A			4.22	4.53	4.34		
	ηs,h		%	-		171		
	Annual energy consumption		kWh/a	1,560	2,413	3,071		
	Required back up heating cap at design conditions		kW	0.00				
	TOL	Tol (temperature operating limit)	°C	-10				
		Pdh (declared heating cap)	kW	4.70	7.80	9.52		
		COPd (declared COP)		2.54	2.51	1.91	1.93	
		Power input	kW	1.85	3.11	4.98	4.93	
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0				
		Pdh (declared heating cap)	kW	4.70	7.80	9.52		
		COPd (declared COP)		2.54	2.51	1.91	1.93	
		Power input	kW	1.85	3.11	4.98	4.93	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.13	6.86	8.43	8.42	
		COPd (declared COP)		2.96	2.87	2.59	2.52	
		Power input	kW	1.40	2.39	3.25	3.34	
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54	4.21	5.12		
		COPd (declared COP)		4.23	4.37	4.29	4.33	
		Power input	kW	0.60	0.96	1.20	1.18	
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.77	2.73	3.29		
		COPd (declared COP)		5.11	6.01	5.92		
		Power input	kW	0.35	0.45	0.56		
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96	2.47	2.52		
		COPd (declared COP)		6.01	7.75	6.94		
		Power input	kW	0.33	0.32	0.36		
Cooling	Cdc (Degradation cooling)				0.25			
Heating	Cdh (Degradation heating)				0.25			
Cooling function included					Yes			
Heating function included					Yes			
Average climate included					Yes			
Cold season included					No			
Warm season included					No			
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009			
		Heating	POFF	kW	0.009			
	Standby mode	Cooling	PSB	kW	0.009			
		Heating	PSB	kW	0.009			
	Thermostat-off mode	Cooling	PTO	kW	0.005			
		Heating	PTO	kW	0.013			
Indication if the heater is equipped with a supplementary heater (pair application)					No			
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0			

Notes

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.
- (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2 Specifications

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2-3 Capacity and Power input				FBA71A9/RZAG71NY1	FBA100A/RZAG100NY1	FBA125A/RZAG125NY1	FBA140A/RZAG140NY1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			6.22	6.47	6.19	6.42
	ηs,c		%	-		245	254
	Annual energy consumption		kWh/a	382	514	1,173	1,252
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.40	3.69	2.91	2.86
		Power input	kW	2.00	2.58	4.15	4.69
	B Condition (30°C - 27/19)	Pdc	kW	5.03	7.03	8.92	9.88
		EERd		4.81	4.92	4.70	4.64
		Power input	kW	1.05	1.43	1.90	2.13
	C Condition (25°C - 27/19)	Pdc	kW	3.20	4.46	5.74	6.35
		EERd		7.53	7.80	7.08	7.47
		Power input	kW	0.42	0.57	0.81	0.85
	D Condition (20°C - 27/19)	Pdc	kW	2.44	3.33	3.34	3.50
EERd		11.76	11.22	10.92	12.13		
Power input		kW	0.21	0.30	0.31	0.29	
Space heating (Average climate)	Energy efficiency class			A+		-	
	Capacity	Pdesign	kW	4.70	7.80	9.52	
	SCOP/A			4.20	4.36	4.12	4.11
	SCOPnet/A			4.20	4.36	4.12	4.11
	ηs,h		%	-		162	161
	Annual energy consumption		kWh/a	1,566	2,505	3,235	3,243
	Required back up heating cap at design conditions		kW	0.00			
	TOL	Tol (temperature operating limit)	°C	-10			
			Pdh (declared heating cap)	kW	4.70	7.80	9.52
		COPd (declared COP)		2.50	2.46	1.86	1.90
		Power input		kW	1.88	3.17	5.12
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0			
			Pdh (declared heating cap)	kW	4.70	7.80	9.52
		COPd (declared COP)		2.50	2.46	1.86	1.90
		Power input		kW	1.88	3.17	5.12
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14	6.87	8.42	8.43
		COPd (declared COP)		2.92	2.82	2.52	2.45
		Power input	kW	1.42	2.43	3.34	3.44
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54	4.21	5.12	
		COPd (declared COP)		4.21	4.33	4.12	4.09
		Power input	kW	0.60	0.97	1.24	1.25
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.76	2.73	3.29	
		COPd (declared COP)		5.12	5.47	5.43	5.52
		Power input	kW	0.34	0.50	0.61	0.60
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96	2.51	2.55	2.56
		COPd (declared COP)		6.12	6.91	6.35	6.49
		Power input	kW	0.32	0.36	0.40	0.39
Cooling	Cdc (Degradation cooling)			0.25			
Heating	Cdh (Degradation heating)			0.25			
Cooling function included				Yes			
Heating function included				Yes			
Average climate included				Yes			

2 Specifications

2-3 Capacity and Power input					FBA71A9/RZAG71NY1	FBA100A/RZAG100NY1	FBA125A/RZAG125NY1	FBA140A/RZAG140NY1
Cold season included					No			
Warm season included					No			
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.011			
		Heating	POFF	kW	0.011			
	Standby mode	Cooling	PSB	kW	0.011			
		Heating	PSB	kW	0.011			
	Thermostat-off mode	Cooling	PTO	kW	0.005			
		Heating	PTO	kW	0.015			
Indication if the heater is equipped with a supplementary heater (pair application)					No			
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0			

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2-4 Capacity and Power input				FDA125A/RZAG125NY1
Cooling capacity	Nom.		kW	12.1 (1)
Heating capacity	Nom.		kW	13.5 (2)
Space cooling	Capacity	Pdesign	kW	12.1
	SEER			6.59
	ηs,c		%	261
	Annual energy consumption		kWh/a	1,102
	A Condition (35°C - 27/19)	Pdc	kW	12.10
		EERd		3.25
		Power input	kW	3.73
	B Condition (30°C - 27/19)	Pdc	kW	8.92
		EERd		4.99
		Power input	kW	1.79
	C Condition (25°C - 27/19)	Pdc	kW	5.73
		EERd		7.67
		Power input	kW	0.75
	D Condition (20°C - 27/19)	Pdc	kW	3.34
		EERd		11.04
		Power input	kW	0.30

2 Specifications

2-4 Capacity and Power input					FDA125A/RZAG125NY1		
Space heating (Average climate)	Capacity	Pdesign	kW		9.52		
	SCOP/A				4.08		
	SCOPnet/A				4.08		
	ηs,h		%		160		
	Annual energy consumption		kWh/a		3,267		
	Required back up heating cap at design conditions		kW		0.00		
	TOL	Tol (temperature operating limit)	°C	-10			
				Pd _h (declared heating cap)			9.52
				COP _d (declared COP)			1.87
				Power input		kW	5.10
	TBivalent	T _{biv} (bivalent temperature)	°C	-10			
				Pd _h (declared heating cap)		kW	9.52
				COP _d (declared COP)		1.87	
				Power input		kW	5.10
	A Condition (-7°C)	Pd _h (declared heating cap)	kW	8.42			
				COP _d (declared COP)		2.52	
				Power input		kW	3.34
	B Condition (2°C)	Pd _h (declared heating cap)	kW	5.12			
				COP _d (declared COP)		4.06	
				Power input		kW	1.26
	C Condition (7°C)	Pd _h (declared heating cap)	kW	3.29			
				COP _d (declared COP)		5.37	
				Power input		kW	0.61
	D Condition (12°C)	Pd _h (declared heating cap)	kW	2.58			
				COP _d (declared COP)		6.27	
				Power input		kW	0.41
	Cooling	C _{dc} (Degradation cooling)				0.25	
	Heating	C _{dh} (Degradation heating)				0.25	
	Cooling function included					Yes	
	Heating function included					Yes	
Average climate included					Yes		
Cold season included					No		
Warm season included					No		
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.012		
		Heating	POFF	kW	0.012		
	Standby mode	Cooling	PSB	kW	0.012		
		Heating	PSB	kW	0.012		
	Thermostat-off mode	Cooling	PTO	kW	0.005		
		Heating	PTO	kW	0.016		
Indication if the heater is equipped with a supplementary heater (pair application)					No		
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0		

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2 Specifications

2-5 Capacity and Power input				FAA71A/RZAG71NY1		FAA100A/RZAG100NY1		
Cooling capacity	Nom.		kW	6.80 (1)		9.50 (1)		
Heating capacity	Nom.		kW	7.50 (2)		10.8 (2)		
Space cooling	Energy efficiency class			A++				
	Capacity	Pdesign	kW	6.80		9.50		
	SEER			6.58		6.42		
	Annual energy consumption		kWh/a	362		518		
	A Condition (35°C - 27/19)	Pdc	kW	6.80		9.50		
		EERd		3.27		3.74		
		Power input	kW	2.08		2.54		
	B Condition (30°C - 27/19)	Pdc	kW	5.03		7.03		
		EERd		4.54		4.76		
		Power input	kW	1.11		1.48		
	C Condition (25°C - 27/19)	Pdc	kW	3.22		4.46		
		EERd		9.30		7.70		
		Power input	kW	0.35		0.58		
D Condition (20°C - 27/19)	Pdc	kW	2.40		3.43			
	EERd		11.11		11.08			
	Power input	kW	0.22		0.31			
Space heating (Average climate)	Energy efficiency class			A+				
	Capacity	Pdesign	kW	4.70		7.80		
	SCOP/A			4.02		4.01		
	SCOPnet/A			4.02		4.01		
	Annual energy consumption		kWh/a	1,637		2,723		
	Required back up heating cap at design conditions		kW	0.00				
	TOL	Tol (temperature operating limit)	°C	-10				
			Pdh (declared heating cap)	kW	4.70		7.80	
			COPd (declared COP)		2.40		2.19	
			Power input	kW	1.96		3.57	
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0				
			Pdh (declared heating cap)	kW	4.70		7.80	
			COPd (declared COP)		2.40		2.19	
			Power input	kW	1.96		3.57	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14		6.86		
			COPd (declared COP)		2.78		2.53	
			Power input	kW	1.49		2.71	
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54		4.21		
			COPd (declared COP)		4.02		3.94	
			Power input	kW	0.63		1.07	
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.76		2.73		
			COPd (declared COP)		4.92		5.19	
			Power input	kW	0.36		0.53	
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96		2.47		
			COPd (declared COP)		5.83		6.61	
			Power input	kW	0.34		0.37	
	Cooling	Cdc (Degradation cooling)			0.25			
	Heating	Cdh (Degradation heating)			0.25			
	Cooling function included				Yes			
	Heating function included				Yes			
	Average climate included				Yes			
	Cold season included				No			
	Warm season included				No			

2 Specifications

2-5 Capacity and Power input					FAA71A/RZAG71NY1	FAA100A/RZAG100NY1
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009	
		Heating	POFF	kW	0.009	
	Standby mode	Cooling	PSB	kW	0.009	
		Heating	PSB	kW	0.009	
	Thermostat-off mode	Cooling	PTO	kW	0.005	
		Heating	PTO	kW	0.013	
Indication if the heater is equipped with a supplementary heater (pair application)					No	
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0	

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2-6 Capacity and Power input				FHA71A9/RZAG71NY1	FHA100A/RZAG100NY1	FHA125A/RZAG125NY1	FHA140A/RZAG140NY1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			7.11	6.42	7.14	6.42
	ηs,c		%	-		283	254
	Annual energy consumption		kWh/a	335	518	1,017	1,253
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.75	4.10	3.40	3.11
		Power input		kW	1.81	2.31	3.56
	B Condition (30°C - 27/19)	Pdc	kW	5.03	7.03	8.92	9.87
		EERd		5.46	4.92	5.55	4.94
		Power input		kW	0.92	1.43	1.61
	C Condition (25°C - 27/19)	Pdc	kW	3.20	4.47	5.73	6.35
		EERd		8.99	7.62	8.20	7.48
		Power input		kW	0.36	0.59	0.70
	D Condition (20°C - 27/19)	Pdc	kW	2.48	3.54	3.36	3.35
		EERd		12.58	10.27	12.00	10.13
		Power input		kW	0.20	0.34	0.28

2 Specifications

2-6 Capacity and Power input					FHA71A9/RZAG71NY1	FHA100A/RZAG100NY1	FHA125A/RZAG125NY1	FHA140A/RZAG140NY1			
Space heating (Average climate)	Energy efficiency class				A+		A++		-		
	Capacity		Pdesign	kW	4.70		7.80		9.52		
	SCOP/A				4.32		4.61		4.09 4.30		
	SCOPnet/A				4.32		4.61		4.09 4.30		
	ηs,h			%	-			161		169	
	Annual energy consumption			kWh/a	1,523		2,369		3,259 3,100		
	Required back up heating cap at design conditions			kW	0.00						
	TOL	Tol (temperature operating limit)	°C	-10							
				Pdh (declared heating cap)	kW	4.70	7.80	9.52			
								COPd (declared COP)		2.43 2.65 1.82 2.13	
								Power input		1.93 2.94 5.24 4.47	
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0							
				Pdh (declared heating cap)	kW	4.70	7.80	9.52			
								COPd (declared COP)		2.43 2.65 1.82 2.13	
								Power input		1.93 2.94 5.24 4.47	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14	6.86	8.42					
						COPd (declared COP)		2.95 3.03 2.48 2.70			
						Power input		1.40 2.27 3.39 3.11			
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54	4.21	5.12					
						COPd (declared COP)		4.44 4.61 4.15 4.33			
						Power input		0.57 0.91 1.24 1.18			
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.79	2.73	3.29					
						COPd (declared COP)		5.15 5.70 5.34 5.54			
						Power input		0.35 0.48 0.62 0.59			
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.97	2.54	2.55 2.64					
						COPd (declared COP)		5.99 7.06 5.97 6.25			
						Power input		0.33 0.36 0.43 0.42			
Cooling	Cdc (Degradation cooling)				0.25						
Heating	Cdh (Degradation heating)				0.25						
Cooling function included					Yes						
Heating function included					Yes						
Average climate included					Yes						
Cold season included					No						
Warm season included					No						
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009						
		Heating	POFF	kW	0.009						
	Standby mode	Cooling	PSB	kW	0.009						
		Heating	PSB	kW	0.009						
	Thermostat-off mode	Cooling	PTO	kW	0.005						
		Heating	PTO	kW	0.013						
Indication if the heater is equipped with a supplementary heater (pair application)					No						
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0						

Notes

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.
 (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2 Specifications

2-7 Capacity and Power input				FUA71A/RZAG71NY1	FUA100A/RZAG100NY1	FUA125A/RZAG125NY1	
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	
Space cooling	Energy efficiency class			A++		-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	
	SEER			7.02	6.42	6.39	
	ηs,c		%	-		253	
	Annual energy consumption		kWh/a	339	518	1,136	
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	
		EERd		3.83	3.57	3.02	
		Power input	kW	1.77	2.66	4.00	
	B Condition (30°C - 27/19)	Pdc	kW	5.03	7.03	8.91	
		EERd		5.34	4.93	5.08	
		Power input	kW	0.94	1.43	1.76	
	C Condition (25°C - 27/19)	Pdc	kW	3.20	4.46	5.74	
		EERd		8.83	7.75	7.22	
		Power input	kW	0.36	0.58	0.79	
	D Condition (20°C - 27/19)	Pdc	kW	2.59	3.36	3.23	
		EERd		12.48	10.65	10.56	
		Power input	kW	0.21	0.32	0.31	
Space heating (Average climate)	Energy efficiency class			A+		-	
	Capacity	Pdesign	kW	4.70	7.80	9.52	
	SCOP/A			4.20	4.50	4.26	
	SCOPnet/A			4.20	4.50	4.26	
	ηs,h		%	-		167	
	Annual energy consumption		kWh/a	1,567	2,427	3,129	
	Required back up heating cap at design conditions		kW	0.00			
	TOL	Tol (temperature operating limit)	°C	-10			
		Pdh (declared heating cap)	kW	4.70	7.80	9.52	
		COPd (declared COP)		2.58	2.62	1.97	
		Power input	kW	1.82	2.97	4.83	
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0			
		Pdh (declared heating cap)	kW	4.70	7.80	9.52	
		COPd (declared COP)		2.58	2.62	1.97	
		Power input	kW	1.82	2.97	4.83	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14	6.86	8.43	
		COPd (declared COP)		2.99	3.00	2.66	
		Power input	kW	1.38	2.29	3.17	
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54	4.21	5.12	
		COPd (declared COP)		4.27	4.53	4.31	
		Power input	kW	0.60	0.93	1.19	
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.80	2.73	3.29	
		COPd (declared COP)		5.03	5.47		
		Power input	kW	0.36	0.50	0.60	
	D Condition (12°C)	Pdh (declared heating cap)	kW	2.00	2.55	2.58	
		COPd (declared COP)		6.00	6.76	6.18	
		Power input	kW	0.33	0.38	0.42	
	Cooling	Cdc (Degradation cooling)			0.25		
	Heating	Cdh (Degradation heating)			0.25		
	Cooling function included				Yes		
	Heating function included				Yes		
	Average climate included				Yes		

2 Specifications

2-7 Capacity and Power input					FUA71A/RZAG71NY1	FUA100A/RZAG100NY1	FUA125A/RZAG125NY1
Cold season included					No		
Warm season included					No		
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009		
		Heating	POFF	kW	0.009		
	Standby mode	Cooling	PSB	kW	0.009		
		Heating	PSB	kW	0.009		
	Thermostat-off mode	Cooling	PTO	kW	0.005		
		Heating	PTO	kW	0.013		
Indication if the heater is equipped with a supplementary heater (pair application)					No		
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0		

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2-8 Capacity and Power input				FVA71A/RZAG71NY1	FVA100A/RZAG100NY1	FVA125A/RZAG125NY1	FVA140A/RZAG140NY1
Cooling capacity	Nom.		kW	6.80 (1)	9.50 (1)	12.1 (1)	13.4 (1)
Heating capacity	Nom.		kW	7.50 (2)	10.8 (2)	13.5 (2)	15.5 (2)
Space cooling	Energy efficiency class			A++	A+	-	
	Capacity	Pdesign	kW	6.80	9.50	12.1	13.4
	SEER			6.34	6.00	6.41	6.12
	ηs,c			-		253	242
	Annual energy consumption			kWh/a	376	554	1,133
	A Condition (35°C - 27/19)	Pdc	kW	6.80	9.50	12.10	13.40
		EERd		3.27	3.57	3.21	3.03
		Power input	kW	2.08	2.66	3.77	4.42
	B Condition (30°C - 27/19)	Pdc	kW	5.03	7.03	8.92	9.87
		EERd		5.15	4.83	5.23	4.89
		Power input	kW	0.98	1.46	1.70	2.02
	C Condition (25°C - 27/19)	Pdc	kW	3.20	4.46	5.73	6.35
		EERd		7.53	7.11	7.07	6.90
		Power input	kW	0.42	0.63	0.81	0.92
	D Condition (20°C - 27/19)	Pdc	kW	2.33	3.20	3.23	3.24
		EERd		11.27	9.13	10.28	9.46
		Power input	kW	0.21	0.35	0.31	0.34

2 Specifications

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2-8 Capacity and Power input					FVA71A/RZAG71NY1	FVA100A/RZAG100NY1	FVA125A/RZAG125NY1	FVA140A/RZAG140NY1	
Space heating (Average climate)	Energy efficiency class				A+		-		
	Capacity	Pdesign	kW	4.70	7.80	9.52			
	SCOP/A				4.05	4.20	4.15	3.94	
	SCOPnet/A				4.05	4.20	4.15	3.94	
	ηs,h			%	-		163	155	
	Annual energy consumption			kWh/a	1,625	2,600	3,209	3,383	
	Required back up heating cap at design conditions			kW	0.00				
	TOL	Tol (temperature operating limit)	°C	-10					
		Pdh (declared heating cap)	kW	4.70	7.80	9.52			
		COPd (declared COP)		2.42	2.45	1.86			
		Power input	kW	1.94	3.19	5.11			
	TBivalent	Tbiv (bivalent temperature)	°C	-10.0					
		Pdh (declared heating cap)	kW	4.70	7.80	9.52			
		COPd (declared COP)		2.42	2.45	1.86			
		Power input	kW	1.94	3.19	5.11			
	A Condition (-7°C)	Pdh (declared heating cap)	kW	4.14	6.86	8.43	8.42		
		COPd (declared COP)		2.83	2.82	2.55	2.42		
		Power input	kW	1.46	2.43	3.30	3.48		
	B Condition (2°C)	Pdh (declared heating cap)	kW	2.54	4.21	5.12			
		COPd (declared COP)		4.07	4.21	4.20	3.99		
		Power input	kW	0.62	1.00	1.22	1.28		
	C Condition (7°C)	Pdh (declared heating cap)	kW	1.76	2.73	3.29			
		COPd (declared COP)		4.92	5.13	5.42	5.12		
		Power input	kW	0.36	0.53	0.61	0.64		
	D Condition (12°C)	Pdh (declared heating cap)	kW	1.96	2.56	2.57	2.61		
		COPd (declared COP)		5.77	6.22	6.00	5.67		
		Power input	kW	0.34	0.41	0.43	0.46		
Cooling	Cdc (Degradation cooling)				0.25				
Heating	Cdh (Degradation heating)				0.25				
Cooling function included					Yes				
Heating function included					Yes				
Average climate included					Yes				
Cold season included					No				
Warm season included					No				
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.009				
		Heating	POFF	kW	0.009				
	Standby mode	Cooling	PSB	kW	0.009				
		Heating	PSB	kW	0.009				
	Thermostat-off mode	Cooling	PTO	kW	0.005				
		Heating	PTO	kW	0.013				
Indication if the heater is equipped with a supplementary heater (pair application)					No				
Supplementary heater (pair application)	Back-up capacity	Heating	elbu	kW	0.0				

Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

2 Specifications

2-9 Technical Specifications					RZAG71NY1		RZAG100NY1		RZAG125NY1		RZAG140NY1		
Capacity control	Method				Inverter controlled								
Casing	Colour				Ivory white								
	Material				Painted galvanized steel plate								
Dimensions	Unit	Height		mm	870								
		Width		mm	1,100								
		Depth		mm	460								
	Packed unit	Height		mm	1,043								
		Width		mm	1,205								
		Depth		mm	509								
Weight	Unit			kg	81	85		94					
	Packed unit			kg	92	96		105					
Packing	Weight			kg	10								
Heat exchanger	Fin	Type			WF fin								
		Treatment			Anti-corrosion treatment (PE)								
Compressor	Quantity				1								
	Type				Hermetically sealed swing compressor								
Fan	Type				Propeller								
	Discharge direction				Horizontal								
	Quantity				1								
	Air flow rate	Cooling	Nom.	m³/min	68	67		80		87			
		Heating	Nom.	m³/min	75	82		80		87			
Fan motor	Quantity				1								
	Model				Brushless DC motor								
	Output			W	234								
	Drive				Direct drive								
Sound power level	Cooling			dBA	64	66		69		70			
	Heating			dBA	-				68 (1)		71 (1)		
Sound pressure level	Cooling	Nom.		dBA	46	47		49		50			
	Heating	Nom.		dBA	48	50		52					
Operation range	Cooling	Ambien t	Min.	°CDB	-20								
			Max.	°CDB	52								
	Heating	Ambien t	Min.	°CWB	-20								
			Max.	°CWB	18								
Refrigerant	Type				R-32								
	Charge			kg	3.20				3.70				
				TCO ₂ eq	2.16				2.50				
	Control				Expansion valve (electronic type)								
	GWP				675								
	Circuits	Quantity			1								
Piping connections	Liquid	Quantity			1								
		Type			Flare connection								
		OD	mm		9,52								
	Gas	Quantity			1								
		Type			Flare connection								
		OD	mm		15.9								
	Drain	Quantity			8								
		Type			Hole								
		OD	mm		26								
	Piping length	OU - IU	Min.	m	3								
			Max.	m	55	85							
		System	Equival ent	m	75	100							
				Chargel ess	m	40							
	Additional refrigerant charge				kg/m	See installation manual							
	Level difference	IU - OU	Max.	m	30								
IU - IU		Max.	m	0.5									
Heat insulation				Both liquid and gas pipes									

2 Specifications

2-9 Technical Specifications			RZAG71NY1	RZAG100NY1	RZAG125NY1	RZAG140NY1
Refrigerant oil	Type		FW68DA			
	Charged volume	l	0.9		1.4	
Defrost method			Reversed cycle			
Defrost control			Sensor for outdoor heat exchanger temperature			
Safety devices	Item	01	High pressure switch			
		02	Low pressure switch			
		03	Fan driver overload protector			
		04	Fuse			
		05	Compressor motor thermal protector			

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : Peel off F-gas label; Quantity : 1;

Standard Accessories : Refrigerant label for F-gas regulation; Quantity : 1;

2-10 Electrical Specifications			RZAG71NY1	RZAG100NY1	RZAG125NY1	RZAG140NY1
Power supply	Name		Y1			
	Phase		3~			
	Frequency	Hz	50			
	Voltage	V	380-415			
Current - 50Hz	Maximum fuse amps (MFA)	A	16			
Current	Zmax	List	Complies to EN61000-3-11			
Wiring connections	For power supply	Remark	See installation manual outdoor unit			
	For connection with indoor	Remark	See installation manual outdoor unit			
Power supply intake			See installation manual outdoor unit			

Notes

(1) According to ENER Lot 21

3 Electrical data

3 - 1 Electrical Data

RZAG-NV1

RZAG-NY1

Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

- The 'RLA' is based on the following conditions.
Cooling
Indoor temperature :27.0°C DB / -19.0°C WB
Outdoor temperature :35.0°C DB
Heating
Indoor temperature :20.0°C DB
Outdoor temperature :7.0°C DB / -6.0°C WB
- 'TOCA' is the total value of each overcurrent set.
- Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- The maximum allowable voltage that is unbalanced between phases is -2%.
- 'MCA' is the maximum input current.
The capacity of the 'MFA' must be greater than that of the 'MCA'.
Select the 'MFA' according to the table.
- Select the wire size according to the MCA.
- 'MFA' is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

3D120943

RZAG-NV1

Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCAHG71HVEB		RZAG71N7V1B	Minimum: -198 V. Maximum: -264 V.	50Hz ~ 220-240V	17,7	—	20	—	15,5	0,234	0,8	0,091	0,7
FCAG35BVEB	x2	RZAG71N7V1B			17,6	—	20	—	15,5	0,234	0,8	0,044 x2	0,3 x2
FCAG71BVEB		RZAG71N7V1B			17,4	—	20	—	15,5	0,234	0,8	0,054	0,4
FFA35A2VEB	x2	RZAG71N7V1B			17,4	—	20	—	15,5	0,234	0,8	0,050 x2	0,2 x2
FBA35A2VEB	x2	RZAG71N7V1B			19,9	—	20	—	15,5	0,234	0,8	0,089 x2	1,4 x2
FBA71A2VEB		RZAG71N7V1B			18,3	—	20	—	15,5	0,234	0,8	0,070	1,3
FNA35A2VEB	x2	RZAG71N7V1B			18,0	—	20	—	15,5	0,234	0,8	0,034 x2	0,5 x2
FUA71AVEB		RZAG71N7V1B			17,9	—	20	—	15,5	0,234	0,8	0,046	0,9
FAA71AUEB		RZAG71N7V1B			17,5	—	20	—	15,5	0,234	0,8	0,048	0,5
FVA71AMVEB		RZAG71N7V1B			17,8	—	20	—	15,5	0,234	0,8	0,117	0,8
FDXM35F3V1B	x2	RZAG71N7V1B			17,6	—	20	—	15,5	0,234	0,8	0,034 x2	0,3 x2
FHA35AVEB	x2	RZAG71N7V1B			18,2	—	20	—	15,5	0,234	0,8	0,060 x2	0,6 x2
FHA71AVEB		RZAG71N7V1B			17,8	—	20	—	15,5	0,234	0,8	0,091	0,8
FCAHG100HVEB		RZAG100N7V1B	Minimum: -198 V. Maximum: -264 V.	50Hz ~ 220-240V	22,2	—	32	—	18,8	0,234	1,2	0,221	1,3
FCAG35BVEB	x3	RZAG100N7V1B			21,7	—	32	—	18,8	0,234	1,2	0,044 x3	0,3 x3
FCAG50BVEB	x2	RZAG100N7V1B			21,4	—	32	—	18,8	0,234	1,2	0,039 x2	0,3 x2
FCAG100BVEB		RZAG100N7V1B			21,5	—	32	—	18,8	0,234	1,2	0,117	0,7
FFA35A2VEB	x3	RZAG100N7V1B			21,4	—	32	—	18,8	0,234	1,2	0,050 x3	0,2 x3
FFA50A2VEB	x2	RZAG100N7V1B			21,6	—	32	—	18,8	0,234	1,2	0,050 x2	0,4 x2
FBA35A2VEB	x3	RZAG100N7V1B			25,2	—	32	—	18,8	0,234	1,2	0,089 x3	1,4 x3
FBA50A2VEB	x2	RZAG100N7V1B			23,7	—	32	—	18,8	0,234	1,2	0,089 x2	1,4 x2
FBA100A2VEB		RZAG100N7V1B			24,4	—	32	—	18,8	0,234	1,2	0,127	3,5
FNA35A2VEB	x3	RZAG100N7V1B			22,4	—	32	—	18,8	0,234	1,2	0,034 x3	0,5 x3
FNA50A2VEB	x2	RZAG100N7V1B			21,8	—	32	—	18,8	0,234	1,2	0,060 x2	0,5 x2
FUA100AVEB		RZAG100N7V1B			22,2	—	32	—	18,8	0,234	1,2	0,106	1,3
FAA100AUEB		RZAG100N7V1B			21,3	—	32	—	18,8	0,234	1,2	0,064	0,5
FVA100AMVEB		RZAG100N7V1B			22,4	—	32	—	18,8	0,234	1,2	0,238	1,5
FDXM35F3V1B	x3	RZAG100N7V1B			21,7	—	32	—	18,8	0,234	1,2	0,034 x3	0,3 x3
FDXM50F3V1B	x2	RZAG100N7V1B			22,7	—	32	—	18,8	0,234	1,2	0,060 x2	0,9 x2
FHA35AVEB	x3	RZAG100N7V1B			22,7	—	32	—	18,8	0,234	1,2	0,060 x3	0,6 x3
FHA50AVEB	x2	RZAG100N7V1B			22,0	—	32	—	18,8	0,234	1,2	0,060 x2	0,6 x2
FHA100AVEB		RZAG100N7V1B			22,2	—	32	—	18,8	0,234	1,2	0,150	1,3

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Electrical data

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								Compressor		OFM		IFM		
Indoor		Outdoor	Power supply	Voltage range	MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA	
50Hz ~ 220-240V														
Minimum: -198 V														
Maximum: -264 V														
FCAHG125HVEB		RZAG125N7V1B	50Hz ~ 220-240V	Minimum: -198 V	Maximum: -264 V	27.5	—	32	—	23.8	0.234	1.2	0.244	1.4
FCAG358VEB	x4	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.044 x4	0.3 x4
FCAG508VEB	x3	RZAG125N7V1B				26.9	—	32	—	23.8	0.234	1.2	0.039 x3	0.3 x3
FCAG608VEB	x2	RZAG125N7V1B				26.6	—	32	—	23.8	0.234	1.2	0.044 x2	0.3 x2
FCAG125BVEB		RZAG125N7V1B				27.0	—	32	—	23.8	0.234	1.2	0.168	1.0
FFA35A2VEB	x4	RZAG125N7V1B				26.8	—	32	—	23.8	0.234	1.2	0.050 x4	0.2 x4
FFA50A2VEB	x3	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.050 x3	0.4 x3
FFA60A2VEB	x2	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.050 x2	0.6 x2
FBA35A2VEB	x4	RZAG125N7V1B				31.8	—	32	—	23.8	0.234	1.2	0.089 x4	1.4 x4
FBA50A2VEB	x3	RZAG125N7V1B				30.4	—	32	—	23.8	0.234	1.2	0.089 x3	1.4 x3
FBA60A2VEB	x2	RZAG125N7V1B				28.7	—	32	—	23.8	0.234	1.2	0.070 x2	1.3 x2
FBA125A2VEB		RZAG125N7V1B				30.1	—	32	—	23.8	0.234	1.2	0.187	3.9
FNA35A2VEB	x4	RZAG125N7V1B				28.1	—	32	—	23.8	0.234	1.2	0.034 x4	0.5 x4
FNA50A2VEB	x3	RZAG125N7V1B				27.6	—	32	—	23.8	0.234	1.2	0.060 x3	0.5 x3
FNA60A2VEB	x2	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.060 x2	0.6 x2
FUA125AVEB		RZAG125N7V1B				27.5	—	32	—	23.8	0.234	1.2	0.106	1.4
FDA125AVEB		RZAG125N7V1B				28.2	—	32	—	23.8	0.234	1.2	0.350	2.1
FVA125AMVEB		RZAG125N7V1B				27.6	—	32	—	23.8	0.234	1.2	0.238	1.5
FDXM35F3V1B	x4	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.034 x4	0.3 x4
FDXM50F3V1B	x3	RZAG125N7V1B				28.8	—	32	—	23.8	0.234	1.2	0.060 x3	0.9 x3
FDXM60F3V1B	x2	RZAG125N7V1B				27.9	—	32	—	23.8	0.234	1.2	0.060 x2	0.9 x2
FHA35AVEB	x4	RZAG125N7V1B				28.5	—	32	—	23.8	0.234	1.2	0.060 x4	0.6 x4
FHA50AVEB	x3	RZAG125N7V1B				27.9	—	32	—	23.8	0.234	1.2	0.060 x3	0.6 x3
FHA60AVEB	x2	RZAG125N7V1B				27.2	—	32	—	23.8	0.234	1.2	0.091 x2	0.6 x2
FHA125AVEB		RZAG125N7V1B				27.6	—	32	—	23.8	0.234	1.2	0.150	1.5
50Hz ~ 220-240V														
Minimum: -198 V														
Maximum: -264 V														
FCAHG71HVEB	x2	RZAG140N7V1B	50Hz ~ 220-240V	Minimum: -198 V	Maximum: -264 V	27.5	—	32	—	23.6	0.234	1.4	0.091 x2	0.7 x2
FCAHG140HVEB		RZAG140N7V1B				27.5	—	32	—	23.6	0.234	1.4	0.244	1.4
FCAG358VEB	x4	RZAG140N7V1B				27.2	—	32	—	23.6	0.234	1.4	0.044 x4	0.3 x4
FCAG508VEB	x3	RZAG140N7V1B				26.9	—	32	—	23.6	0.234	1.4	0.039 x3	0.3 x3
FCAG71BVEB	x2	RZAG140N7V1B				26.8	—	32	—	23.6	0.234	1.4	0.054 x2	0.4 x2
FCAG140BVEB		RZAG140N7V1B				27.4	—	32	—	23.6	0.234	1.4	0.168	1.3
FFA35A2VEB	x4	RZAG140N7V1B				26.8	—	32	—	23.6	0.234	1.4	0.050 x4	0.2 x4
FFA50A2VEB	x3	RZAG140N7V1B				27.2	—	32	—	23.6	0.234	1.4	0.050 x3	0.4 x3
FBA35A2VEB	x4	RZAG140N7V1B				31.8	—	32	—	23.6	0.234	1.4	0.089 x4	1.4 x4
FBA50A2VEB	x3	RZAG140N7V1B				30.4	—	32	—	23.6	0.234	1.4	0.089 x3	1.4 x3
FBA71A2VEB	x2	RZAG140N7V1B				28.7	—	32	—	23.6	0.234	1.4	0.070 x2	1.3 x2
FBA140A2VEB		RZAG140N7V1B				30.1	—	32	—	23.6	0.234	1.4	0.187	3.9
FNA35A2VEB	x4	RZAG140N7V1B				28.1	—	32	—	23.6	0.234	1.4	0.034 x4	0.5 x4
FNA50A2VEB	x3	RZAG140N7V1B				27.6	—	32	—	23.6	0.234	1.4	0.060 x3	0.5 x3
FUA71AVEB	x2	RZAG140N7V1B				27.9	—	32	—	23.6	0.234	1.4	0.046 x2	0.9 x2
FAA71AUVEB	x2	RZAG140N7V1B				27.0	—	32	—	23.6	0.234	1.4	0.048 x2	0.5 x2
FVA71AMVEB	x2	RZAG140N7V1B				27.7	—	32	—	23.6	0.234	1.4	0.117 x2	0.8 x2
FVA140AMVEB		RZAG140N7V1B				27.9	—	32	—	23.6	0.234	1.4	0.276	1.8
FDXM35F3V1B	x4	RZAG140N7V1B				27.2	—	32	—	23.6	0.234	1.4	0.034 x4	0.3 x4
FDXM50F3V1B	x3	RZAG140N7V1B				28.8	—	32	—	23.6	0.234	1.4	0.060 x3	0.9 x3
FHA35AVEB	x4	RZAG140N7V1B				28.5	—	32	—	23.6	0.234	1.4	0.060 x4	0.6 x4
FHA50AVEB	x3	RZAG140N7V1B				27.9	—	32	—	23.6	0.234	1.4	0.060 x3	0.6 x3
FHA71AVEB	x2	RZAG140N7V1B				27.7	—	32	—	23.6	0.234	1.4	0.091 x2	0.8 x2
FHA140AVEB		RZAG140N7V1B				27.9	—	32	—	23.6	0.234	1.4	0.150	1.8

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							Compressor		OFM		IFM		
Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAHG71HVEB	RZAG71N7Y1B	3N~ 50Hz 380-415V	Minimum: -342 V Maximum: -457 V	11,1	—	16	—	9,2	0,234	0,8	0,091	0,7	
FCAG35BVEB	x2 RZAG71N7Y1B			11,0	—	16	—	9,2	0,234	0,8	0,044 x2	0,3 x2	
FCAG71BVEB	RZAG71N7Y1B			10,8	—	16	—	9,2	0,234	0,8	0,054	0,4	
FFA35A2VEB	x2 RZAG71N7Y1B			10,8	—	16	—	9,2	0,234	0,8	0,050 x2	0,2 x2	
FBA35A2VEB	x2 RZAG71N7Y1B			(10,4)*	—	16	—	9,2	0,234	0,8	0,089 x2	1,4 x2	
FBA71A2VEB	RZAG71N7Y1B			(10,4)*	—	16	—	9,2	0,234	0,8	0,070	1,3	
FNA35A2VEB	x2 RZAG71N7Y1B			11,4	—	16	—	9,2	0,234	0,8	0,034 x2	0,5 x2	
FUA71AVEB	RZAG71N7Y1B			11,3	—	16	—	9,2	0,234	0,8	0,046	0,9	
FAA71AUVEB	RZAG71N7Y1B			10,9	—	16	—	9,2	0,234	0,8	0,048	0,5	
FVA71AMVEB	RZAG71N7Y1B			11,2	—	16	—	9,2	0,234	0,8	0,117	0,8	
FDXM35F3V1B	x2 RZAG71N7Y1B			11,0	—	16	—	9,2	0,234	0,8	0,034 x2	0,3 x2	
FHA35AVEB	x2 RZAG71N7Y1B			11,6	—	16	—	9,2	0,234	0,8	0,060 x2	0,6 x2	
FHA71AVEB	RZAG71N7Y1B			11,2	—	16	—	9,2	0,234	0,8	0,091	0,8	
FCAHG100HVEB	RZAG100N7Y1B	3N~ 50Hz 380-415V	Minimum: -342 V Maximum: -457 V	14,9	—	16	—	11,8	0,234	1,2	0,221	1,3	
FCAG35BVEB	x3 RZAG100N7Y1B			13,0	—	16	—	10,4	0,234	1,2	0,044 x3	0,3 x3	
FCAG50BVEB	x2 RZAG100N7Y1B			12,7	—	16	—	10,4	0,234	1,2	0,039 x2	0,3 x2	
FCAG100BVEB	RZAG100N7Y1B			14,2	—	16	—	11,8	0,234	1,2	0,117	0,7	
FFA35A2VEB	x3 RZAG100N7Y1B			12,7	—	16	—	10,4	0,234	1,2	0,050 x3	0,2 x3	
FFA50A2VEB	x2 RZAG100N7Y1B			12,9	—	16	—	10,4	0,234	1,2	0,050 x2	0,4 x2	
FBA35A2VEB	x3 RZAG100N7Y1B			(12,1)*	—	16	—	10,4	0,234	1,2	0,089 x3	1,4 x3	
FBA50A2VEB	x2 RZAG100N7Y1B			(12,1)*	—	16	—	10,4	0,234	1,2	0,089 x2	1,4 x2	
FBA100A2VEB	RZAG100N7Y1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,127	3,5	
FNA35A2VEB	x3 RZAG100N7Y1B			13,6	—	16	—	10,4	0,234	1,2	0,034 x3	0,5 x3	
FNA50A2VEB	x2 RZAG100N7Y1B			13,1	—	16	—	10,4	0,234	1,2	0,060 x2	0,5 x2	
FUA100AVEB	RZAG100N7Y1B			14,9	—	16	—	11,8	0,234	1,2	0,106	1,3	
FAA100AUVEB	RZAG100N7Y1B			14,0	—	16	—	11,8	0,234	1,2	0,064	0,5	
FVA100AMVEB	RZAG100N7Y1B			15,1	—	16	—	11,8	0,234	1,2	0,238	1,5	
FDXM35F3V1B	x3 RZAG100N7Y1B			13,0	—	16	—	10,4	0,234	1,2	0,034 x3	0,3 x3	
FDXM50F3V1B	x2 RZAG100N7Y1B			13,9	—	16	—	10,4	0,234	1,2	0,060 x2	0,9 x2	
FHA35AVEB	x3 RZAG100N7Y1B			13,9	—	16	—	10,4	0,234	1,2	0,060 x3	0,6 x3	
FHA50AVEB	x2 RZAG100N7Y1B			13,3	—	16	—	10,4	0,234	1,2	0,060 x2	0,6 x2	
FHA100AVEB	RZAG100N7Y1B			14,9	—	16	—	11,8	0,234	1,2	0,150	1,3	

* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the outdoor unit. For the MCA of the indoor unit, see the installation manual of the indoor unit.

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3 Electrical data

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		Power supply	Voltage range	MCA	TOCA	MFA	Compressor		OFM		IFM	
Indoor	Outdoor						MSC	RLA	kW	FLA	kW	FLA
FCAHG125HVEB	RZAG125N7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V. Maximum: 457 V.	15,0	—	16	—	11,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4 RZAG125N7Y1B			12,2	—	16	—	9,3	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3 RZAG125N7Y1B			12,9	—	16	—	10,3	0,234	1,2	0,039 x3	0,3 x3
FCAG60BVEB	x2 RZAG125N7Y1B			14,1	—	16	—	11,8	0,234	1,2	0,044 x2	0,3 x2
FCAG125BVEB	RZAG125N7Y1B			14,6	—	16	—	11,8	0,234	1,2	0,168	1,0
FFA35A2VEB	x4 RZAG125N7Y1B			11,8	—	16	—	9,3	0,234	1,2	0,050 x4	0,2 x4
FFA50A2VEB	x3 RZAG125N7Y1B			13,2	—	16	—	10,3	0,234	1,2	0,050 x3	0,4 x3
FFA60A2VEB	x2 RZAG125N7Y1B			14,8	—	16	—	11,8	0,234	1,2	0,050 x2	0,6 x2
FBA35A2VEB	x4 RZAG125N7Y1B			(10,9)*	—	16	—	9,3	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG125N7Y1B			(12,0)*	—	16	—	10,3	0,234	1,2	0,089 x3	1,4 x3
FBA60A2VEB	x2 RZAG125N7Y1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,070 x2	1,3 x2
FBA125A2VEB	RZAG125N7Y1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,187	3,9
FNA35A2VEB	x4 RZAG125N7Y1B			13,0	—	16	—	9,3	0,234	1,2	0,034 x4	0,5 x4
FNA50A2VEB	x3 RZAG125N7Y1B			13,5	—	16	—	10,3	0,234	1,2	0,060 x3	0,5 x3
FNA60A2VEB	x2 RZAG125N7Y1B			14,8	—	16	—	11,8	0,234	1,2	0,060 x2	0,6 x2
FUA125AVEB	RZAG125N7Y1B			15,0	—	16	—	11,8	0,234	1,2	0,106	1,4
FDA125AVEB	RZAG125N7Y1B			15,7	—	16	—	11,8	0,234	1,2	0,350	2,1
FVA125AMVEB	RZAG125N7Y1B			15,1	—	16	—	11,8	0,234	1,2	0,238	1,5
FDXM35F3V1B	x4 RZAG125N7Y1B			12,2	—	16	—	9,3	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3 RZAG125N7Y1B			14,8	—	16	—	10,3	0,234	1,2	0,060 x3	0,9 x3
FDXM60F3V1B	x2 RZAG125N7Y1B			15,4	—	16	—	11,8	0,234	1,2	0,060 x2	0,9 x2
FHA35AVEB	x4 RZAG125N7Y1B			13,4	—	16	—	9,3	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3 RZAG125N7Y1B			13,8	—	16	—	10,3	0,234	1,2	0,060 x3	0,6 x3
FHA60AVEB	x2 RZAG125N7Y1B			14,8	—	16	—	11,8	0,234	1,2	0,091 x2	0,6 x2
FHA125AVEB	RZAG125N7Y1B			15,1	—	16	—	11,8	0,234	1,2	0,150	1,5
FCAHG71HVEB	x2 RZAG140N7Y1B	3N~ 50Hz 380-415V	Minimum: 342 V. Maximum: 457 V.	15,0	—	16	—	11,6	0,234	1,4	0,091 x2	0,7 x2
FCAHG140HVEB	RZAG140N7Y1B			15,0	—	16	—	11,6	0,234	1,4	0,244	1,4
FCAG35BVEB	x4 RZAG140N7Y1B			12,2	—	16	—	9,1	0,234	1,4	0,044 x4	0,3 x4
FCAG50BVEB	x3 RZAG140N7Y1B			12,9	—	16	—	10,1	0,234	1,4	0,039 x3	0,3 x3
FCAG71BVEB	x2 RZAG140N7Y1B			14,4	—	16	—	11,6	0,234	1,4	0,054 x2	0,4 x2
FCAG140BVEB	RZAG140N7Y1B			14,9	—	16	—	11,6	0,234	1,4	0,168	1,3
FFA35A2VEB	x4 RZAG140N7Y1B			11,8	—	16	—	9,1	0,234	1,4	0,050 x4	0,2 x4
FFA50A2VEB	x3 RZAG140N7Y1B			13,2	—	16	—	10,1	0,234	1,4	0,050 x3	0,4 x3
FBA35A2VEB	x4 RZAG140N7Y1B			(10,9)*	—	16	—	9,1	0,234	1,4	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG140N7Y1B			(12,0)*	—	16	—	10,1	0,234	1,4	0,089 x3	1,4 x3
FBA71A2VEB	x2 RZAG140N7Y1B			(13,5)*	—	16	—	11,6	0,234	1,4	0,070 x2	1,3 x2
FBA140A2VEB	RZAG140N7Y1B			(13,5)*	—	16	—	11,6	0,234	1,4	0,187	3,9
FNA35A2VEB	x4 RZAG140N7Y1B			13,0	—	16	—	9,1	0,234	1,4	0,034 x4	0,5 x4
FNA50A2VEB	x3 RZAG140N7Y1B			13,5	—	16	—	10,1	0,234	1,4	0,060 x3	0,5 x3
FUA71AVEB	x2 RZAG140N7Y1B			15,4	—	16	—	11,6	0,234	1,4	0,046 x2	0,9 x2
FAA71AUVEB	x2 RZAG140N7Y1B			14,6	—	16	—	11,6	0,234	1,4	0,048 x2	0,5 x2
FVA71AMVEB	x2 RZAG140N7Y1B			15,2	—	16	—	11,6	0,234	1,4	0,117 x2	0,8 x2
FVA140AMVEB	RZAG140N7Y1B			15,4	—	16	—	11,6	0,234	1,4	0,276	1,8
FDXM35F3V1B	x4 RZAG140N7Y1B			12,2	—	16	—	9,1	0,234	1,4	0,034 x4	0,3 x4
FDXM50F3V1B	x3 RZAG140N7Y1B			14,8	—	16	—	10,1	0,234	1,4	0,060 x3	0,9 x3
FHA35AVEB	x4 RZAG140N7Y1B			13,4	—	16	—	9,1	0,234	1,4	0,060 x4	0,6 x4
FHA50AVEB	x3 RZAG140N7Y1B			13,8	—	16	—	10,1	0,234	1,4	0,060 x3	0,6 x3
FHA71AVEB	x2 RZAG140N7Y1B			15,2	—	16	—	11,6	0,234	1,4	0,091 x2	0,8 x2
FHA140AVEB	RZAG140N7Y1B			15,4	—	16	—	11,6	0,234	1,4	0,150	1,8

* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the outdoor unit. For the MCA of the indoor unit, see the installation manual of the indoor unit.

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Symbols

MCA: Minimum Circuit Ampere [A]
TOCA: Total overcurrent amps [A]
MFA: Maximum Fuse Ampere [A]
MSC: Maximum current of the starting compressor [A]
RLA: Rated load amps [A]
OFM: Outdoor fan motor
IFM: Indoor fan motor
FLA: Full Load Ampere [A]
KW: Fan motor rated output [kW]

Notes

- The ·RLA· is based on the following conditions.
Cooling
Indoor temperature ·27.0·°C DB / ·19.0·°C WB
Outdoor temperature ·35.0·°C DB
Heating
Indoor temperature ·20.0·°C DB
Outdoor temperature ·7.0·°C DB / ·6.0·°C WB
- TOCA· is the total value of each overcurrent set.
- Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- The maximum allowable voltage that is unbalanced between phases is ·2·%.
- MCA· is the maximum input current.
The capacity of the ·MFA· must be greater than that of the ·MCA·.
Select the ·MFA· according to the table.
- Select the wire size according to the MCA.
- MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
Earth leakage circuit breaker

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Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCAHG100HVEB	RZAG71N7V1B	50Hz ~ 220-240V	Minimum: -198 V. Maximum: 264 V.		18,3	—	20	—	15,5	0,234	0,8	0,221	1,3
FCAG35BVEB	x3 RZAG71N7V1B				17,9	—	20	—	15,5	0,234	0,8	0,044 x3	0,3 x3
FCAG50BVEB	x2 RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,039 x2	0,3 x2
FCAG100BVEB	RZAG71N7V1B				17,7	—	20	—	15,5	0,234	0,8	0,117	0,7
FFA35A2VEB	x3 RZAG71N7V1B				17,6	—	20	—	15,5	0,234	0,8	0,050 x3	0,2 x3
FFA50A2VEB	x2 RZAG71N7V1B				17,8	—	20	—	15,5	0,234	0,8	0,050 x2	0,4 x2
FBA35A2VEB	x3 RZAG71N7V1B				21,3	—	20	—	15,5	0,234	0,8	0,089 x3	1,4 x3
FBA50A2VEB	x2 RZAG71N7V1B				19,9	—	20	—	15,5	0,234	0,8	0,089 x2	1,4 x2
FBA100A2VEB	RZAG71N7V1B				20,6	—	20	—	15,5	0,234	0,8	0,127	3,5
FUA100AVEB	RZAG71N7V1B				18,3	—	20	—	15,5	0,234	0,8	0,106	1,3
FAA100AVEB	RZAG71N7V1B				17,5	—	20	—	15,5	0,234	0,8	0,064	0,5
FVA100AMVEB	RZAG71N7V1B				18,5	—	20	—	15,5	0,234	0,8	0,238	1,5
FDXM35F3V1B	x3 RZAG71N7V1B				17,9	—	20	—	15,5	0,234	0,8	0,034 x3	0,3 x3
FDXM50F3V1B	x2 RZAG71N7V1B				18,8	—	20	—	15,5	0,234	0,8	0,060 x2	0,9 x2
FHA35AVEB	x3 RZAG71N7V1B				18,8	—	20	—	15,5	0,234	0,8	0,060 x3	0,6 x3
FHA50AVEB	x2 RZAG71N7V1B				18,2	—	20	—	15,5	0,234	0,8	0,060 x2	0,6 x2
FHA100AVEB	RZAG71N7V1B				18,3	—	20	—	15,5	0,234	0,8	0,15	1,3
FCAHG71HVEB	x2 RZAG100N7V1B	50Hz ~ 220-240V	Minimum: -198 V. Maximum: 264 V.		22,3	—	32	—	18,8	0,234	1,2	0,091 x2	0,7 x2
FCAHG140HVEB	RZAG100N7V1B				22,3	—	32	—	18,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4 RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3 RZAG100N7V1B				21,7	—	32	—	18,8	0,234	1,2	0,039 x3	0,3 x3
FCAG71BVEB	x2 RZAG100N7V1B				21,6	—	32	—	18,8	0,234	1,2	0,054 x2	0,4 x2
FCAG140BVEB	RZAG100N7V1B				22,2	—	32	—	18,8	0,234	1,2	0,168	1,3
FFA35A2VEB	x4 RZAG100N7V1B				21,6	—	32	—	18,8	0,234	1,2	0,050 x4	0,8
FFA50A2VEB	x3 RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,2	0,050 x3	0,4 x3
FBA35A2VEB	x4 RZAG100N7V1B				26,6	—	32	—	18,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG100N7V1B				25,2	—	32	—	18,8	0,234	1,2	0,089 x3	1,4 x3
FBA71A2VEB	x2 RZAG100N7V1B				23,5	—	32	—	18,8	0,234	1,2	0,07 x2	1,3 x2
FBA140A2VEB	RZAG100N7V1B				24,9	—	32	—	18,8	0,234	1,2	0,187	3,9
FUA71AVEB	x2 RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,046 x2	0,9 x2
FAA71AVEB	x2 RZAG100N7V1B				21,8	—	32	—	18,8	0,234	1,2	0,048 x2	0,5 x2
FVA140AMVEB	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,2	0,276	1,8
FDXM35F3V1B	x4 RZAG100N7V1B				22,0	—	32	—	18,8	0,234	1,19523	0,034 x4	0,3 x4
FDXM50F3V1B	x3 RZAG100N7V1B				23,6	—	32	—	18,8	0,234	1,19523	0,060 x3	0,9 x3
FHA35AVEB	x4 RZAG100N7V1B				23,3	—	32	—	18,8	0,234	1,19523	0,060 x4	0,6 x4
FHA50AVEB	x3 RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,19523	0,060 x3	0,6 x3
FHA71AVEB	x2 RZAG100N7V1B				22,5	—	32	—	18,8	0,234	1,19523	0,091 x2	0,8 x2
FHA140AVEB	RZAG100N7V1B				22,7	—	32	—	18,8	0,234	1,19523	0,15	1,8

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Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	Compressor		OFM		IFM	
								MSC	RLA	kW	FLA	kW	FLA
FCAHG71HVEB	x2 RZAG125N7V1B	50Hz ~ 220-240V	Minimum: -198 V. Maximum: 264 V.		27,5	—	32	—	23,8	0,234	1,2	0,091 x2	0,7 x2
FCAHG140HVEB	RZAG125N7V1B				27,5	—	32	—	23,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4 RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3 RZAG125N7V1B				26,9	—	32	—	23,8	0,234	1,2	0,039 x3	0,3 x3
FCAG71BVEB	x2 RZAG125N7V1B				26,8	—	32	—	23,8	0,234	1,2	0,054 x2	0,4 x2
FCAG140BVEB	RZAG125N7V1B				27,4	—	32	—	23,8	0,234	1,2	0,168	1,3
FFA35A2VEB	x4 RZAG125N7V1B				26,8	—	32	—	23,8	0,234	1,2	0,050 x4	0,2 x4
FFA50A2VEB	x3 RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,050 x3	0,4 x3
FBA35A2VEB	x4 RZAG125N7V1B				31,8	—	32	—	23,8	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG125N7V1B				30,4	—	32	—	23,8	0,234	1,2	0,089 x3	1,4 x3
FBA71A2VEB	x2 RZAG125N7V1B				28,7	—	32	—	23,8	0,234	1,2	0,07 x2	1,3 x2
FBA140A2VEB	RZAG125N7V1B				30,1	—	32	—	23,8	0,234	1,2	0,187	3,9
FUA71AVEB	x2 RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,046 x2	0,9 x2
FAA71AVEB	x2 RZAG125N7V1B				27,0	—	32	—	23,8	0,234	1,2	0,048 x2	0,5 x2
FVA140AMVEB	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,276	1,8
FDXM35F3V1B	x4 RZAG125N7V1B				27,2	—	32	—	23,8	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3 RZAG125N7V1B				28,8	—	32	—	23,8	0,234	1,2	0,060 x3	0,9 x3
FHA35AVEB	x4 RZAG125N7V1B				28,5	—	32	—	23,8	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3 RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,060 x3	0,6 x3
FHA71AVEB	x2 RZAG125N7V1B				27,7	—	32	—	23,8	0,234	1,2	0,091 x2	0,8 x2
FHA140AVEB	RZAG125N7V1B				27,9	—	32	—	23,8	0,234	1,2	0,15	1,8
FCAHG71HVEB	x2 RZAG140N7V1B	50Hz ~ 220-240V	Minimum: -198 V. Maximum: 264 V.		27,5	—	32	—	23,6	0,234	1,4	0,091 x2	0,7 x2
FCAHG140HVEB	RZAG140N7V1B				27,5	—	32	—	23,6	0,234	1,4	0,244	1,4
FCAG35BVEB	x4 RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,044 x4	0,3 x4
FCAG50BVEB	x3 RZAG140N7V1B				26,9	—	32	—	23,6	0,234	1,4	0,039 x3	0,3 x3
FCAG71BVEB	x2 RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,054 x2	0,4 x2
FCAG140BVEB	RZAG140N7V1B				27,4	—	32	—	23,6	0,234	1,4	0,168	1,3
FFA35A2VEB	x4 RZAG140N7V1B				26,8	—	32	—	23,6	0,234	1,4	0,050 x4	0,2 x4
FFA50A2VEB	x3 RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,4	0,050 x3	0,4 x3
FBA35A2VEB	x4 RZAG140N7V1B				31,8	—	32	—	23,6	0,234	1,4	0,089 x4	1,4 x4
FBA50A2VEB	x3 RZAG140N7V1B				30,4	—	32	—	23,6	0,234	1,4	0,089 x3	1,4 x3
FBA71A2VEB	x2 RZAG140N7V1B				28,7	—	32	—	23,6	0,234	1,4	0,07 x2	1,3 x2
FBA140A2VEB	RZAG140N7V1B				30,1	—	32	—	23,6	0,234	1,41271	0,187	3,9
FUA71AVEB	x2 RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,41271	0,046 x2	0,9 x2
FAA71AVEB	x2 RZAG140N7V1B				27,0	—	32	—	23,6	0,234	1,41271	0,048 x2	0,5 x2
FVA140AMVEB	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,41271	0,276	1,8
FDXM35F3V1B	x4 RZAG140N7V1B				27,2	—	32	—	23,6	0,234	1,41271	0,034 x4	0,3 x4
FDXM50F3V1B	x3 RZAG140N7V1B				28,8	—	32	—	23,6	0,234	1,41271	0,060 x3	0,9 x3
FHA35AVEB	x4 RZAG140N7V1B				28,5	—	32	—	23,6	0,234	1,41271	0,060 x4	0,6 x4
FHA50AVEB	x3 RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,41271	0,060 x3	0,6 x3
FHA71AVEB	x2 RZAG140N7V1B				27,7	—	32	—	23,6	0,234	1,41271	0,091 x2	0,8 x2
FHA140AVEB	RZAG140N7V1B				27,9	—	32	—	23,6	0,234	1,41271	0,15	1,8

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							Compressor		OFM		IFM			
Indoor		Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAHG100HVEB		RZAG71N7Y1B	3N- 50Hz 380-415V	Minimum: -342 V. Maximum: -456 V.	11,8	—	16	—	9,2	0,234	0,8	0,221	1,3	
FCAG35BVEB	x3	RZAG71N7Y1B			11,3	—	16	—	9,2	0,234	0,8	0,044 x3	0,3 x3	
FCAG50BVEB	x2	RZAG71N7Y1B			11,0	—	16	—	9,2	0,234	0,8	0,039 x2	0,3 x3	
FCAG100BVEB		RZAG71N7Y1B			11,1	—	16	—	9,2	0,234	0,8	0,117	0,7	
FFA35A2VEB	x3	RZAG71N7Y1B			11,0	—	16	—	9,2	0,234	0,8	0,050 x3	0,2 x3	
FFA50A2VEB	x2	RZAG71N7Y1B			11,2	—	16	—	9,2	0,234	0,8	0,050 x2	0,4 x2	
FBA35A2VEB	x3	RZAG71N7Y1B			(10,4)*	—	16	—	9,2	0,234	0,8	0,089 x3	1,4 x3	
FBA50A2VEB	x2	RZAG71N7Y1B			(10,4)*	—	16	—	9,2	0,234	0,8	0,089 x2	1,4 x2	
FBA100A2VEB		RZAG71N7Y1B			(10,4)*	—	16	—	9,2	0,234	0,8	0,127	3,5	
FUA100AVEB		RZAG71N7Y1B			11,8	—	16	—	9,2	0,234	0,8	0,106	1,3	
FAA100AUEB		RZAG71N7Y1B			10,9	—	16	—	9,2	0,234	0,8	0,064	0,5	
FVA100AMVEB		RZAG71N7Y1B			12,0	—	16	—	9,2	0,234	0,8	0,238	1,5	
FDXM35F3V1B	x3	RZAG71N7Y1B			11,3	—	16	—	9,2	0,234	0,8	0,034 x3	0,3 x3	
FDXM50F3V1B	x2	RZAG71N7Y1B			12,3	—	16	—	9,2	0,234	0,8	0,060 x2	0,9 x2	
FHA35AVEB	x3	RZAG71N7Y1B			12,3	—	16	—	9,2	0,234	0,8	0,060 x3	0,6 x3	
FHA50AVEB	x2	RZAG71N7Y1B			11,6	—	16	—	9,2	0,234	0,8	0,060 x2	0,6 x2	
FHA100AVEB		RZAG71N7Y1B			11,8	—	16	—	9,2	0,234	0,8	0,15	1,3	
FCAHG71HVEB	x2	RZAG100N7Y1B	3N- 50Hz 380-415V	Minimum: -342 V. Maximum: -456 V.	13,5	—	16	—	10,4	0,234	1,2	0,091 x2	0,7 x2	
FCAHG140HVEB		RZAG100N7Y1B			15,0	—	16	—	11,8	0,234	1,2	0,244	1,4	
FCAG35BVEB	x4	RZAG100N7Y1B			13,3	—	16	—	10,4	0,234	1,2	0,044 x4	0,3 x4	
FCAG50BVEB	x3	RZAG100N7Y1B			13,0	—	16	—	10,4	0,234	1,2	0,039 x3	0,3 x3	
FCAG71BVEB	x2	RZAG100N7Y1B			12,9	—	16	—	10,4	0,234	1,2	0,054 x2	0,4 x2	
FCAG140BVEB		RZAG100N7Y1B			14,9	—	16	—	11,8	0,234	1,2	0,168	1,3	
FFA35A2VEB	x4	RZAG100N7Y1B			12,9	—	16	—	10,4	0,234	1,2	0,050 x4	0,8	
FFA50A2VEB	x3	RZAG100N7Y1B			13,3	—	16	—	10,4	0,234	1,2	0,050 x3	0,4 x3	
FBA35A2VEB	x4	RZAG100N7Y1B			(12,1)*	—	16	—	10,4	0,234	1,2	0,089 x4	1,4 x4	
FBA50A2VEB	x3	RZAG100N7Y1B			(12,1)*	—	16	—	10,4	0,234	1,2	0,089 x3	1,4 x3	
FBA71A2VEB	x2	RZAG100N7Y1B			(12,1)*	—	16	—	10,4	0,234	1,2	0,07 x2	1,3 x2	
FBA140A2VEB		RZAG100N7Y1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,187	3,9	
FUA71AVEB	x2	RZAG100N7Y1B			13,9	—	16	—	10,4	0,234	1,2	0,046 x2	0,9 x2	
FAA71AUEB	x2	RZAG100N7Y1B			13,1	—	16	—	10,4	0,234	1,2	0,048 x2	0,5 x2	
FVA140AMVEB		RZAG100N7Y1B			15,4	—	16	—	11,8	0,234	1,2	0,276	1,8	
FDXM35F3V1B	x4	RZAG100N7Y1B			13,3	—	16	—	10,4	0,234	1,19523	0,034 x4	0,3 x4	
FDXM50F3V1B	x3	RZAG100N7Y1B			14,9	—	16	—	10,4	0,234	1,19523	0,060 x3	0,9 x3	
FHA35AVEB	x4	RZAG100N7Y1B			14,6	—	16	—	10,4	0,234	1,19523	0,060 x4	0,6 x4	
FHA50AVEB	x3	RZAG100N7Y1B			13,9	—	16	—	10,4	0,234	1,19523	0,060 x3	0,6 x3	
FHA71AVEB	x2	RZAG100N7Y1B			13,7	—	16	—	10,4	0,234	1,19523	0,091 x2	0,8 x2	
FHA140AVEB		RZAG100N7Y1B			15,4	—	16	—	11,8	0,234	1,19523	0,15	1,8	

* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the indoor unit. For the actual MCA value, see the installation manual of the indoor unit.

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								Compressor		OFM		IFM	
Indoor	Outdoor	Power supply	Voltage range		MCA	TOCA	MFA	MSC	RLA	kW	FLA	kW	FLA
FCAHG71HVEB	x2	RZAG125N7V1B	3N~ 50Hz 380-415V	Minimum: -342 V. Maximum: -456 V.	15,0	—	16	—	11,8	0,234	1,2	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG125N7V1B			15,0	—	16	—	11,8	0,234	1,2	0,244	1,4
FCAG35BVEB	x4	RZAG125N7V1B			12,2	—	16	—	9,3	0,234	1,2	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG125N7V1B			12,9	—	16	—	10,3	0,234	1,2	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG125N7V1B			14,4	—	16	—	11,8	0,234	1,2	0,054 x2	0,4 x2
FCAG140BVEB		RZAG125N7V1B			14,9	—	16	—	11,8	0,234	1,2	0,168	1,3
FFA35A2VEB	x4	RZAG125N7V1B			11,8	—	16	—	9,3	0,234	1,2	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG125N7V1B			13,2	—	16	—	10,3	0,234	1,2	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG125N7V1B			(10,9)*	—	16	—	9,3	0,234	1,2	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG125N7V1B			(12,0)*	—	16	—	10,3	0,234	1,2	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG125N7V1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,07 x2	1,3 x2
FBA140A2VEB		RZAG125N7V1B			(13,5)*	—	16	—	11,8	0,234	1,2	0,187	3,9
FUA71AVEB	x2	RZAG125N7V1B			15,4	—	16	—	11,8	0,234	1,2	0,046 x2	0,9 x2
FAA71AUEB	x2	RZAG125N7V1B			14,6	—	16	—	11,8	0,234	1,2	0,048 x2	0,5 x2
FVA140AMVEB		RZAG125N7V1B			15,4	—	16	—	11,8	0,234	1,2	0,276	1,8
FDXM35F3V1B	x4	RZAG125N7V1B			12,2	—	16	—	9,3	0,234	1,2	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG125N7V1B			14,8	—	16	—	10,3	0,234	1,2	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG125N7V1B			13,4	—	16	—	9,3	0,234	1,2	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG125N7V1B			13,8	—	16	—	10,3	0,234	1,2	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG125N7V1B			15,2	—	16	—	11,8	0,234	1,2	0,091 x2	0,8 x2
FHA140AVEB		RZAG125N7V1B			15,4	—	16	—	11,8	0,234	1,2	0,15	1,8
FCAHG71HVEB	x2	RZAG140N7V1B	3N~ 50Hz 380-415V	Minimum: -342 V. Maximum: -456 V.	15,0	—	16	—	11,6	0,234	1,4	0,091 x2	0,7 x2
FCAHG140HVEB		RZAG140N7V1B			15,0	—	16	—	11,6	0,234	1,4	0,244	1,4
FCAG35BVEB	x4	RZAG140N7V1B			12,2	—	16	—	9,1	0,234	1,4	0,044 x4	0,3 x4
FCAG50BVEB	x3	RZAG140N7V1B			12,9	—	16	—	10,1	0,234	1,4	0,039 x3	0,3 x3
FCAG71BVEB	x2	RZAG140N7V1B			14,4	—	16	—	11,6	0,234	1,4	0,054 x2	0,4 x2
FCAG140BVEB		RZAG140N7V1B			14,9	—	16	—	11,6	0,234	1,4	0,168	1,3
FFA35A2VEB	x4	RZAG140N7V1B			11,8	—	16	—	9,1	0,234	1,4	0,050 x4	0,2 x4
FFA50A2VEB	x3	RZAG140N7V1B			13,2	—	16	—	10,1	0,234	1,4	0,050 x3	0,4 x3
FBA35A2VEB	x4	RZAG140N7V1B			(10,9)*	—	16	—	9,1	0,234	1,4	0,089 x4	1,4 x4
FBA50A2VEB	x3	RZAG140N7V1B			(12,0)*	—	16	—	10,1	0,234	1,4	0,089 x3	1,4 x3
FBA71A2VEB	x2	RZAG140N7V1B			(13,5)*	—	16	—	11,6	0,234	1,4	0,07 x2	1,3 x2
FBA140A2VEB		RZAG140N7V1B			(13,5)*	—	16	—	11,6	0,234	1,41271	0,187	3,9
FUA71AVEB	x2	RZAG140N7V1B			15,4	—	16	—	11,6	0,234	1,41271	0,046 x2	0,9 x2
FAA71AUEB	x2	RZAG140N7V1B			14,6	—	16	—	11,6	0,234	1,41271	0,048 x2	0,5 x2
FVA140AMVEB		RZAG140N7V1B			15,4	—	16	—	11,6	0,234	1,41271	0,276	1,8
FDXM35F3V1B	x4	RZAG140N7V1B			12,2	—	16	—	9,1	0,234	1,41271	0,034 x4	0,3 x4
FDXM50F3V1B	x3	RZAG140N7V1B			14,8	—	16	—	10,1	0,234	1,41271	0,060 x3	0,9 x3
FHA35AVEB	x4	RZAG140N7V1B			13,4	—	16	—	9,1	0,234	1,41271	0,060 x4	0,6 x4
FHA50AVEB	x3	RZAG140N7V1B			13,8	—	16	—	10,1	0,234	1,41271	0,060 x3	0,6 x3
FHA71AVEB	x2	RZAG140N7V1B			15,2	—	16	—	11,6	0,234	1,41271	0,091 x2	0,8 x2
FHA140AVEB		RZAG140N7V1B			15,4	—	16	—	11,6	0,234	1,41271	0,15	1,8

* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the indoor unit. For the actual MCA value, see the installation manual of the indoor unit.

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4 Options

4 - 1 Options

4

RZAG-NV1

RZAG-NY1

		EKBPH140N	EKMKA2	KHRQ58H	KHRQ58T	KHRQM58H	KHRQM58T	KRP58M51	SB.KRP58M52
RZAG71N7V1B	RZAG71N7Y1B	V	V(1)	V	V(2)	V	V(2)	V(1)	V(1)
RZAG100N7V1B	RZAG100N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)
RZAG125N7V1B	RZAG125N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)
RZAG140N7V1B	RZAG140N7Y1B	V	V(1)	V(3)	V(2)	V(3)	V(2)	V(1)	V(1)

NOTES

1. To mount KRP58M51, an additional mounting kit (EKMKA2) needs to be used (obligatory). This will be offered as sales bom
SB.KRP58M52 = KRP58M51 + EKMKA2
2. For twin combinations use 1 KHRQ(M)58T, for double twin use 3.
3. For triple combinations use 1 KHRQ(M)58H.

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5 Combination table

5 - 1 Combination Table

RZAG-NV1

RZAG-NY1

Comfort cooling combination table

Combinations: P = Pair
2 = Twin
3 = Triple
4 = Double twin

4 = Double twin																																													
	High COP round flow cassette				Round flow cassette				Fully flat cassette		Slim concealed ceiling unit		Concealed ceiling unit with medium ESP				Concealed ceiling unit with high ESP		Wall mounted unit		Ceiling suspended unit		4-way blow ceiling suspended unit		Floor standing unit		Concealed floor standing unit																		
	FCAG71HVEB	FCAG100HVEB	FCAG125HVEB	FCAG140HVEB	FCAG35BVEB	FCAG50BVEB	FCAG60BVEB	FCAG71BVEB	FCAG100BVEB	FCAG125BVEB	FCAG140BVEB	FFA35A2VEB9	FFA50A2VEB9	FFA60A2VEB9	FDX135F3V1B9	FDX150F3V1B9	FDX160F3V1B9	FBAS3A2VEB9	FBAS5A2VEB9	FBAS6A2VEB9	FBAS7A2VEB9	FBAS100A2VEB	FBAS125A2VEB	FBAS140A2VEB	FUA35AVEB9	FUA50AVEB9	FUA60AVEB9	FUA71AVEB9	FHA100AVEB	FHA125AVEB	FHA140AVEB	FUA71AVEB	FUA100AVEB	FUA125AVEB	FUA140AVEB	FVA100AVEB	FVA125AVEB	FVA140AVEB	FMA35A2VEB9	FMA50A2VEB9	FMA60A2VEB9				
RZAG71N7V1B	P											2	2		2																														
RZAG71N7Y1B																		3	2																										
RZAG100N7V1B		P			3	2		P				3	2		3	2		3	2						P	3	2																		
RZAG100N7Y1B																																													
RZAG125N7V1B			P		4	3	2		P			4	3	2	4	3	2	4	3	2					P	4	3	2																	
RZAG125N7Y1B																																													
RZAG140N7V1B	2			P	4	3	2		P			4	3	2	4	3	2	4	3	2					P	4	3	2																	
RZAG140N7Y1B																																													

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RZAG-NV1

RZAG-NY1

Infrastructure cooling combination table

Combinations: P = Pair
2 = Twin
3 = Triple
4 = Double twin

		High COP round flow cassette				Round flow cassette				Fully flat cassette		Slim concealed ceiling unit		Concealed ceiling unit with medium ESP				Wall mounted unit		Ceiling suspended unit				4-way blow ceiling suspended unit		Floor standing unit					
		FCAG140BVEB	FCAG71HVEB	FCAG100HVEB	FCAG140HVEB	FCAG35BVEB	FCAG50BVEB	FCAG71BVEB	FCAG100BVEB	FFA35A2VEB9	FFA50A2VEB9	FDXM35F3V1B9	FDXM50F3V1B9	FBA35A2VEB9	FBA50A2VEB9	FBA71A2VEB9	FBA100A2VEB	FBA140A2VEB	FAA71AUVEB	FAA100AUVEB	FHA35AVEB9	FHA50AVEB9	FHA71AVEB9	FHA100AVEB	FHA140AVEB	FUA71AVEB	FUA100AVEB	FVA100AMVEB	FVA140AMVEB		
RZAG71N7V1B				P		3	2		P		3	2		3	2		P			P	3	2		P				P		P	
RZAG71N7Y1B																															
RZAG100N7V1B	P	2			P	4	3	2			4	3	4	3	2		P	2			4	3	2		P	2					P
RZAG100N7Y1B																															
RZAG125N7V1B	P	2			P	4	3	2			4	3	4	3	2		P	2			4	3	2		P	2					P
RZAG125N7Y1B																															
RZAG140N7V1B	P	2			P	4	3	2			4	3	4	3	2		P	2			4	3	2		P	2					P
RZAG140N7Y1B																															

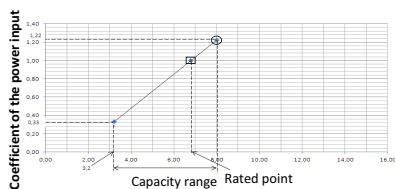
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Capacity tables

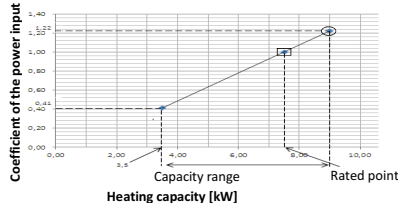
6 - 1 Cooling/Heating Capacity Tables

RZAG71NV1 RZAG71NY1

Cooling



Heating



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

		Cooling capacity [kW]											
		Outdoor temperature [°C DB]						Outdoor temperature [°C WB]					
Indoor	°C DB	25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	8.03	5.45	1.00	7.76	5.32	1.11	7.48	5.20	1.21	7.21	5.06	1.32
18.0	25	8.40	5.45	1.00	8.11	5.32	1.11	7.83	5.19	1.21	7.54	5.05	1.33
19.0	27	8.59	5.44	1.05	8.30	5.32	1.12	8.00	5.18	1.22	7.70	5.05	1.33
19.5	27	8.69	5.43	1.06	8.39	5.31	1.12	8.08	5.17	1.22	7.79	5.05	1.33
22.0	30	9.15	5.38	1.05	8.84	5.25	1.12	8.53	5.13	1.23	8.21	4.99	1.34
24.0	32	9.53	5.31	1.05	9.20	5.19	1.13	8.87	5.06	1.25	8.54	4.92	1.35

		Heating capacity [kW]											
		Outdoor temperature [°C WB]						Outdoor temperature [°C DB]					
Indoor	°C DB	-15.0			-10.0			-5.0			0.0		
		TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI
16	6.44	0.93	7.09	0.99	7.55	1.02	7.79	1.06	9.00	1.12	9.71	1.19	1.24
18	6.43	0.98	7.09	1.03	7.54	1.07	7.79	1.10	9.00	1.17	9.71	1.24	1.24
20	6.42	1.01	7.07	1.07	7.53	1.12	7.77	1.14	9.00	1.22	9.71	1.28	1.28
21	6.42	1.03	7.07	1.09	7.53	1.13	7.77	1.16	9.00	1.24	9.71	1.31	1.31
22	6.42	1.05	7.06	1.11	7.52	1.15	7.76	1.19	9.00	1.27	9.71	1.33	1.33
24	6.41	1.09	7.05	1.15	7.51	1.20	7.75	1.23	9.00	1.32	9.67	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.

Corresponding refrigerant piping length: 5.0-m
Level difference: 0-m

Pair	FAH671H	FAH671B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
AFR	21.2	18.0	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)

Twin	FCAG35B X 2	FHA35A X 2	FFA35A X 2	FDXM35F X 2	FBA35A X 2	FNA35A X 2
AFR	12.5 x 2	10.0 x 2	10.0 x 2	8.7 x 2	15.0 x 2	8.7 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)

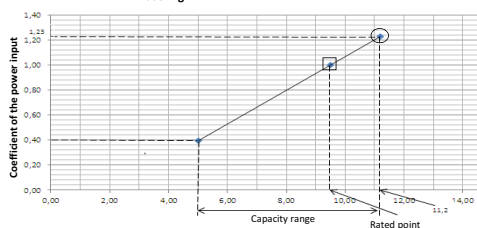
Pair	FAH671H	FAH671B	FAA71A	FVA71A	FHA71A	FUA71A	FBA71A
Cooling	1.65	1.92	2.08	2.08	1.81	1.77	2.00
Heating	1.60	2.02	2.19	2.21	1.90	1.73	1.99

Twin	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

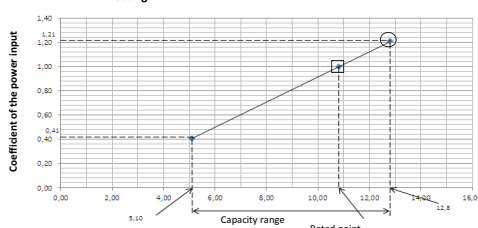
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RZAG100NV1 RZAG100NY1

Cooling



Heating



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

		Cooling capacity [kW]											
		Outdoor temperature [°C DB]						Outdoor temperature [°C WB]					
Indoor	°C DB	25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
16.0	22	11.20	7.61	1.01	10.85	7.48	1.11	10.50	7.35	1.22	10.11	7.09	1.32
18.0	25	11.80	7.59	1.01	11.37	7.49	1.12	11.00	7.37	1.23	10.55	7.09	1.33
19.0	27	12.00	7.57	1.05	11.62	7.45	1.12	11.20	7.35	1.23	10.80	7.04	1.34
19.5	27	12.05	7.56	1.06	11.74	7.47	1.13	11.31	7.36	1.23	10.91	7.06	1.34
22.0	30	12.80	7.52	1.02	12.47	7.36	1.13	12.00	7.18	1.24	11.52	7.03	1.35
24.0	32	13.30	7.45	1.03	12.88	7.27	1.14	12.40	7.08	1.25	11.97	6.93	1.36

		Heating capacity [kW]											
		Outdoor temperature [°C WB]						Outdoor temperature [°C DB]					
Indoor	°C DB	-15.0			-10.0			-5.0			0.0		
		TC	CPI	PI	TC	CPI	PI	TC	CPI	PI	TC	CPI	PI
16	8.59	0.92	9.45	0.98	10.1	1.02	10.4	1.05	12.8	1.11	13.8	1.18	1.18
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	9.43	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	1.30	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	1.32	1.32
24	8.54	1.08	9.41	1.14	10.0	1.19	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.
Corresponding refrigerant piping length: 5.0-m
Level difference: 0-m

Pair	FAH6100H	FAH6100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
AFR	32.5	22.8	26.0	28.0	31.0	29.0	29.0
(BF)	(0.17)	(0.17)	(0.10)	(0.20)	(0.09)	(0.20)	(0.03)

Twin	FCAG50B X 2	FHA50A X 2	FFA50A X 2	FDXM50F X 2	FBA50A X 2	FNA50A X 2
AFR	12.6 x 2	15.0 x 2	15.8 x 2	15.0 x 2	16.0 x 2	16.0 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)

Triple	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A X 3	FNA35A X 3
AFR	12.5 x 3	14.0 x 3	10.0 x 3	8.7 x 3	15.0 x 3	8.7 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)

- 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	FAH6100H	FAH6100B	FAA100A	FVA100A	FHA100A	FUA100A	FBA100A
Cooling	2.65	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	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	FCAG35B X 3	FHA35A X 3	FFA35A X 3	FDXM35F X 3	FBA35A X 3	FNA35A X 3
Cooling	2.05	2.03	2.23	2.11	2.20	2.17
Heating	2.16	2.15	2.76	2.91	2.32	2.91

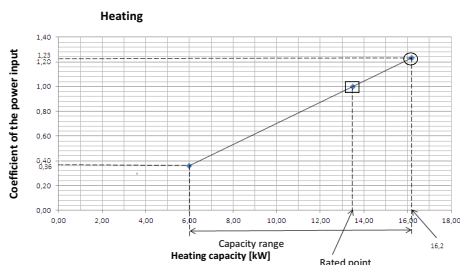
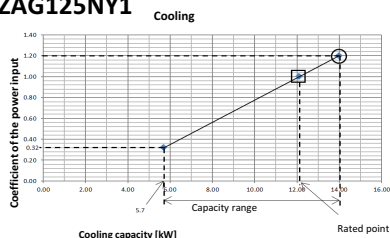
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6 Capacity tables

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
 Pl: Power input [kW]
 compressor + indoor and outdoor fan motors

Cooling													
Indoor		Outdoor temperature [°C DB]											
		25			30			35			40		
		TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI
TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	TCDB	
16.0	22	14.10	9.54	0.99	13.60	9.30	1.09	13.10	9.12	1.19	12.60	8.78	1.29
18.0	25	14.70	9.50	0.99	14.20	9.32	1.09	13.70	9.06	1.20	13.20	8.83	1.30
19.0	27	15.00	9.52	1.00	14.50	9.34	1.10	14.00	9.06	1.20	13.50	8.87	1.31
19.5	27	15.21	9.52	1.00	14.68	9.26	1.11	14.15	9.08	1.20	13.64	8.81	1.31
22.0	30	16.00	9.39	1.00	15.47	9.14	1.11	14.90	8.95	1.21	14.38	8.74	1.32
24.0	32	16.70	9.31	1.01	16.10	9.09	1.11	15.50	8.89	1.21	14.97	8.63	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 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: 0 m

Pair

Pair	FCAG125H	FCAG125B	FDJ125A	FVA125A	FHA125A	FUA125A	FBA125A
AFR	33.5	26.0	39.0	15.8 x 3	15.0 x 3	16.0 x 3	16.0 x 3
(BF)	(0.19)	(0.21)	(0.16)	(0.16)	(0.14)	(0.19)	(0.06)

Twin

Pair	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM60F X 2	FBA60A X 2	FNA60A X 2
AFR	13.6 x 2	19.5 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

Pair	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

Pair	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	Outdoor temperature [°C WB]																				
	-15.0			-10.0			-5.0			0.0			6.0			10.0					
	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl			
TC DB	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	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	
18	11.0	0.98	12.1	1.03	12.9	1.08	13.2	1.11	16.2	1.18	17.5	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	
20	11.0	1.02	12.0	1.08	12.9	1.13	13.2	1.16	16.2	1.23	17.5	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	
21	11.0	1.04	12.0	1.10	12.8	1.14	13.2	1.17	16.2	1.25	17.5	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	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	1.34	1.34	1.34	1.34	1.34	1.34	1.34	1.34	
24	11.0	1.10	12.0	1.16	12.8	1.21	13.2	1.24	16.2	1.33	17.4	1.39	1.39	1.39	1.39	1.39	1.39	1.39	1.39	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

Pair	FCAG125H	FCAG125B	FDJ125A	FVA125A	FHA125A	FUA125A	FBA125A
Cooling	3.08	3.15	3.65	3.73	3.77	3.56	4.00
Heating	3.08	3.52	3.25	3.84	3.36	3.40	3.15

Twin

Pair	FCAG60B X 2	FHA60A X 2	FFA60A X 2	FDXM60F X 2	FBA60A X 2	FNA60A X 2
Cooling	2.76	2.83	3.35	2.60	2.78	2.65
Heating	3.49	3.27	3.58	3.03	2.82	3.04

Triple

Pair	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

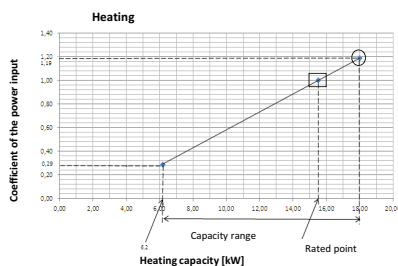
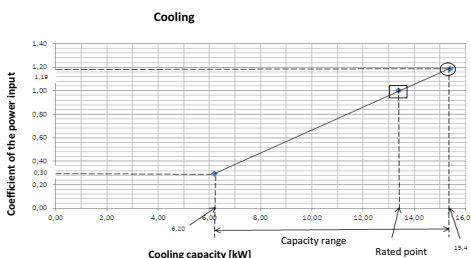
Double twin

Pair	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
 Pl: Power input [kW]
 compressor + indoor and outdoor fan motors

Cooling													
Indoor	Outdoor temperature [°C DB]												
	25			30			35			40			
	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	TC	SHC	CPI	
16.0	22	15.50	10.47	0.98	14.93	10.25	1.08	14.44	10.03	1.18	13.86	9.69	1.28
18.0	25	16.17	10.55	0.98	15.62	10.21	1.09	15.11	10.01	1.19	14.52	9.71	1.30
19.0	27	16.56	10.43	0.99	15.96	10.18	1.09	15.40	9.98	1.19	14.83	9.76	1.30
19.5	27	16.74	10.49	0.99	16.14	10.16	1.10	15.57	10.00	1.19	14.98	9.66	1.30
22.0	30	17.61	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	17.72	10.00	1.11	17.04	9.67	1.22	16.43	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 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: 0 m

Pair

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

Pair	FCAG71H X 2	FCAG71B X 2	FVA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FNA71A X 2
AFR	21.2 x 2	14.3 x 2	18.0 x 2	20.5 x 2	23.0 x 2	18.0 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)	(0.16 x 2)

Triple

Pair	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

Pair	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)

Indoor	Outdoor temperature [°C WB]																	
	-15.0			-10.0			-5.0			0.0			6.0			10.0		
	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl	TC	CPI	Pl
16	11.6	0.91	12.7	0.97	13.6	1.00	13.9	1.03	18.0	1.09	19.4	1.16	1.16	1.16	1.16	1.16	1.16	1.16
18	11.6	0.95	12.7	1.00	13.6	1.04	13.9	1.07	18.0	1.14	19.4	1.21	1.21	1.21	1.21	1.21	1.21	1.21
20	11.6	0.99	12.7	1.05	13.5	1.09	13.9	1.11	18.0	1.19	19.4	1.26	1.26	1.26	1.26	1.26	1.26	1.26
21	11.6	1.00	12.7	1.06	13.5	1.11	13.9	1.13	18.0	1.21	19.4	1.28	1.28	1.28	1.28	1.28	1.28	1.28
22	11.6	1.02	12.7	1.08	13.5	1.12	13.9	1.16	18.0	1.24	19.4	1.30	1.30	1.30	1.30	1.30	1.30	1.30
24	11.6	1.07	12.6	1.12	13.5	1.17	13.9	1.20	18.0	1.29	19.4	1.36	1.36	1.36	1.36	1.36	1.36	1.36

- 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

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

Pair	FCAG71H X 2	FCAG71B X 2	FVA71A X 2	FHA71A X 2	FUA71A X 2	FBA71A X 2	FNA71A X 2
Cooling	3.03	3.69	3.67	3.50	3.28	3.55	3.92
Heating	3.03	3.69	3.67	3.50	3.28	3.55	3.92

Triple

Pair	FCAG50B X 3	FHA50A X 3	FFA50A X 3	FDXM50F X 3	FBA50A X 3	FNA50A X 3
Cooling	2.88	3.15	3.27	3.01	3.02	2.97
Heating	3.44	3.29	3.87	2.96	3.23	3.03

Double twin

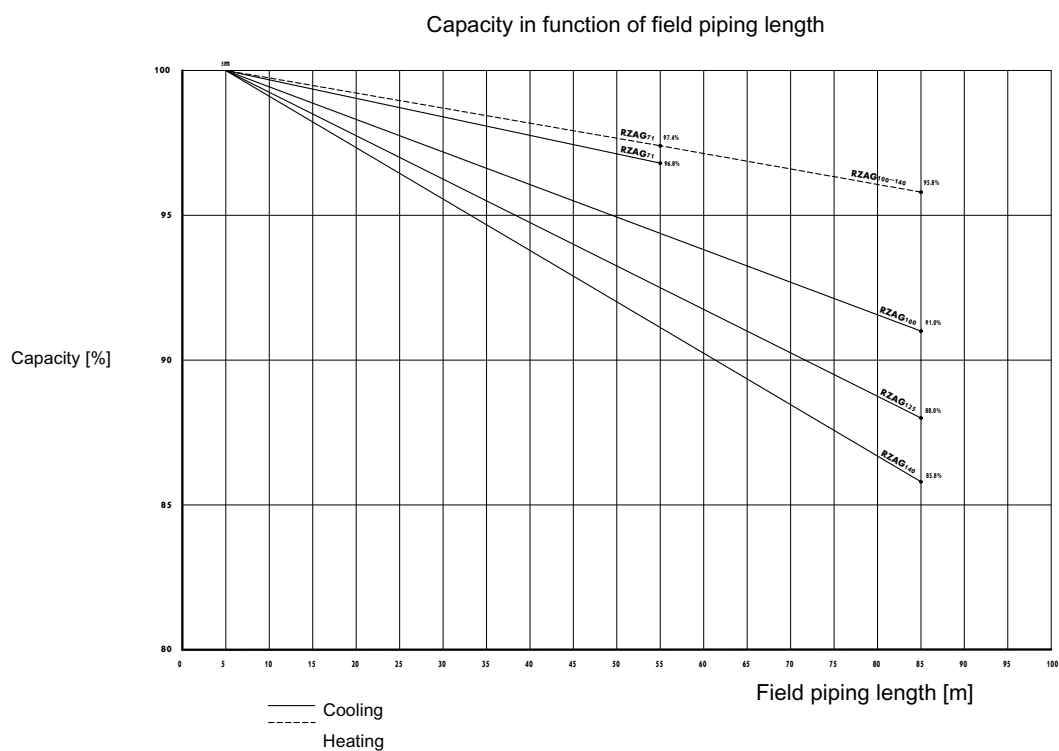
Pair	FCAG35B X 4	FHA35A X 4	FFA35A X 4	FDXM35F X 4	FBA35A X 4	FNA35A X 4
Cooling	2.88	2.75	3.04	2.67	3.02	2.97
Heating	3.97	2.89	4.19	3.49	4.22	3.53

3D125183

6 Capacity tables

6 - 2 Capacity Correction Factor

RZAG-NV1
RZAG-NY1



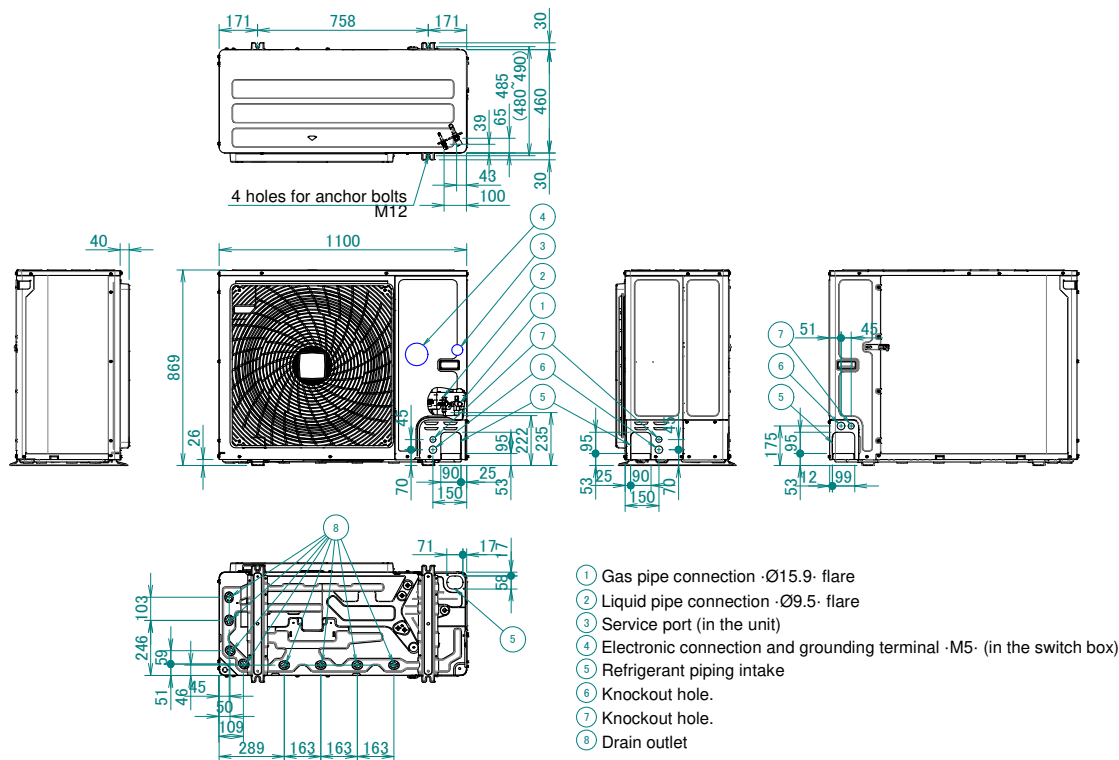
3D112162

7 Dimensional drawings

7 - 1 Dimensional Drawings

RZAG-NV1

RZAG-NY1



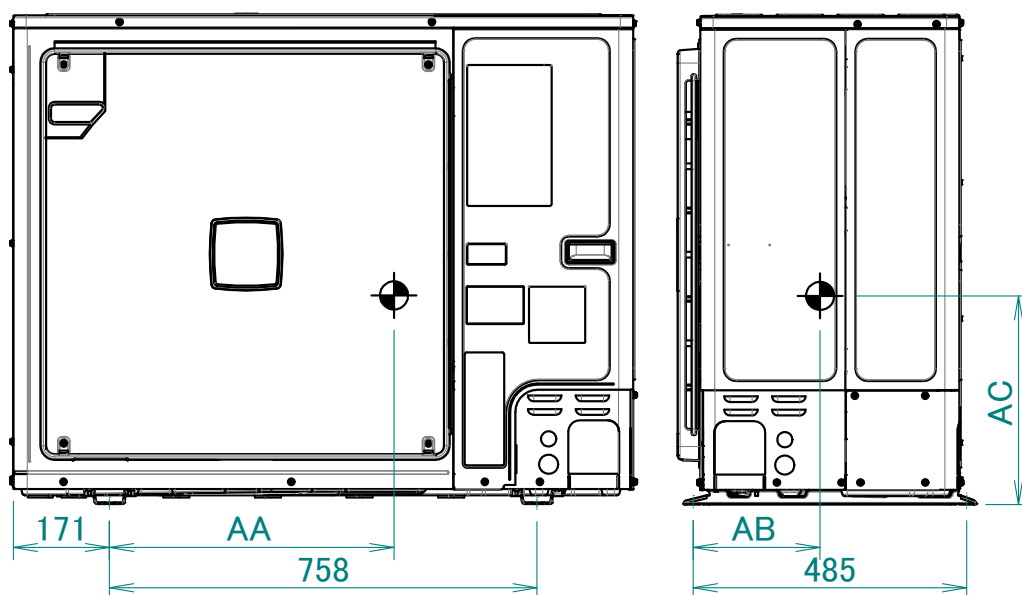
3D120936

8 Centre of gravity

8 - 1 Centre of Gravity

RZAG-NV1

RZAG-NY1



Model	AA	AB	AC
RZAG71N7V1B	691.3	238.7	357.8
RZAG71N7Y1B	696.9	224.7	359.8
RZAG100N7V1B	670.7	239.3	367.6
RZAG100N7Y1B	682.2	223.5	362.5
RZAG125/140N7V1B	657.3	229.2	371.8
RZAG125/140N7Y1B	664.4	215.8	372.2

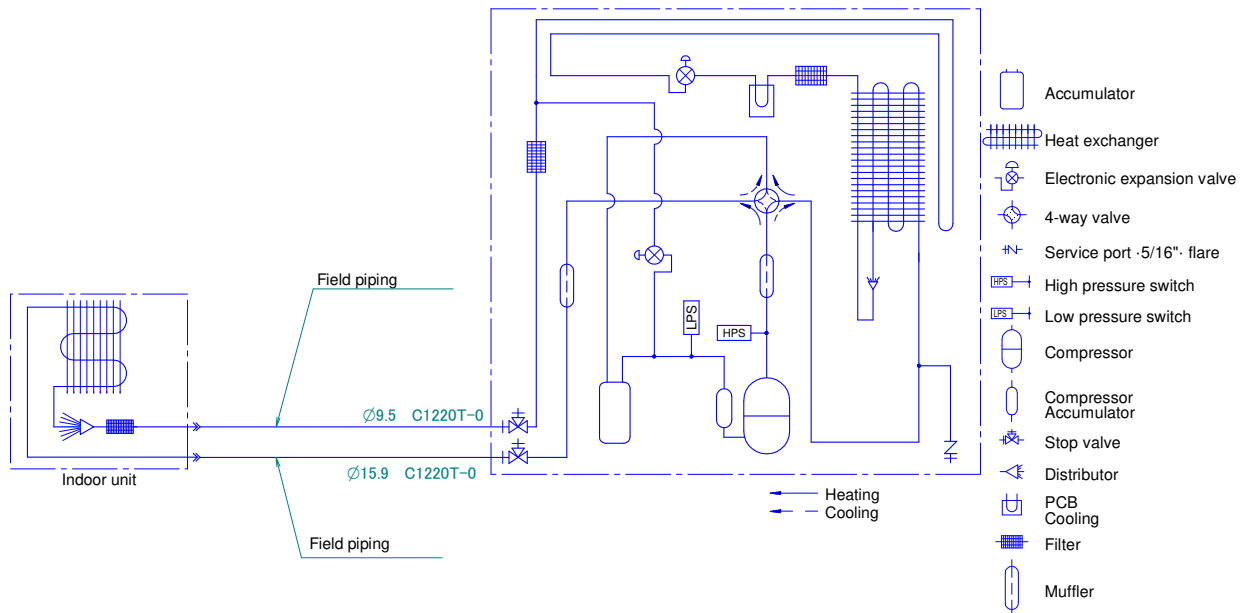
4D120933A

9 Piping diagrams

9 - 1 Piping Diagrams

RZAG-NV1

RZAG-NY1



Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

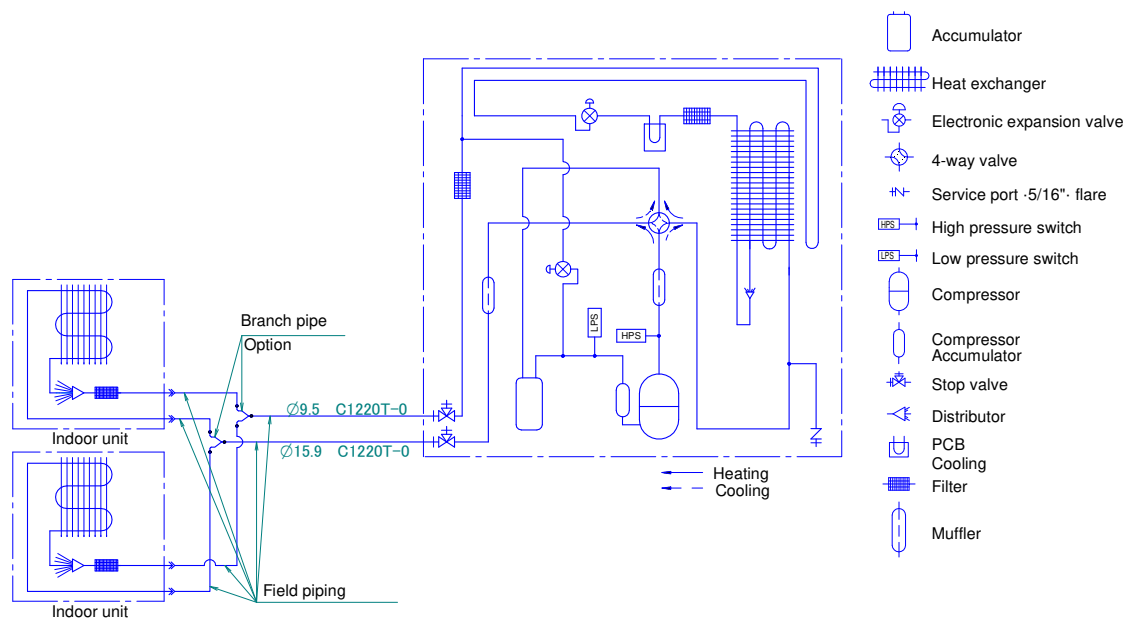
3D120907

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

9

RZAG-NV1
RZAG-NY1



Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

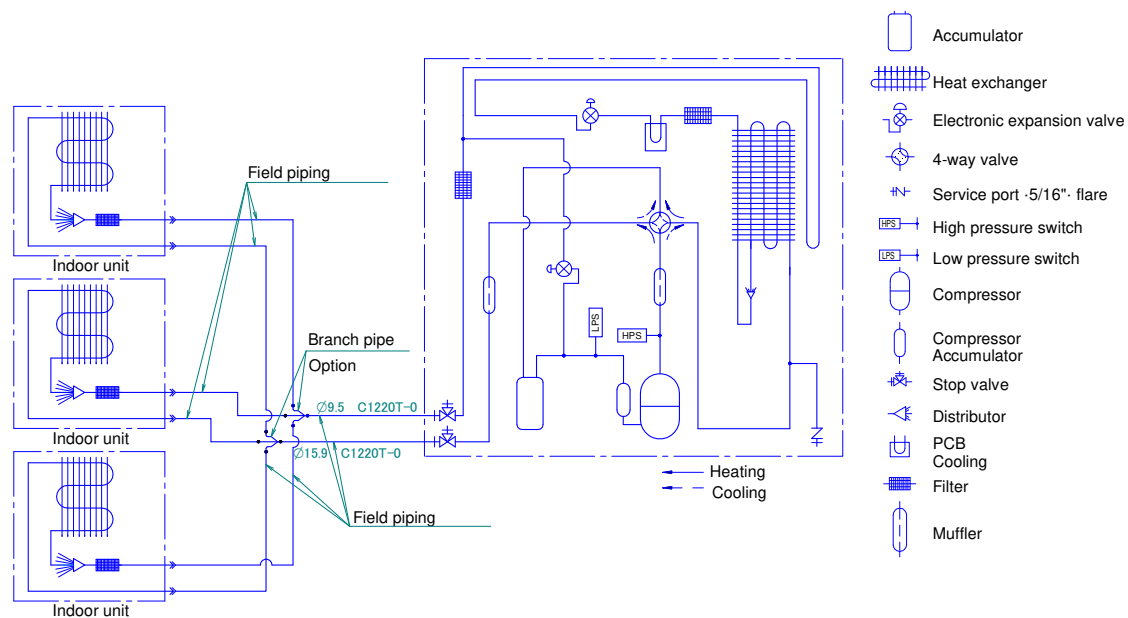
3D120913

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

RZAG100-140NV1

RZAG100-140NY1



Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

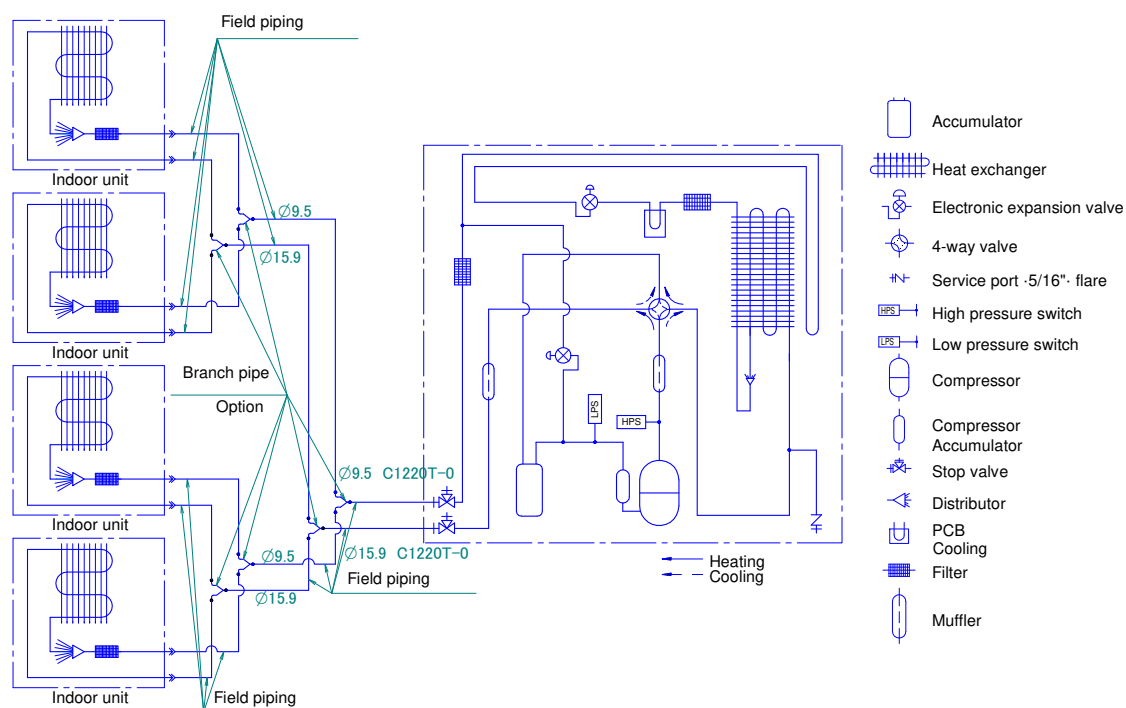
3D120914

9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

RZAG125-140NV1

RZAG125-140NY1



Notes

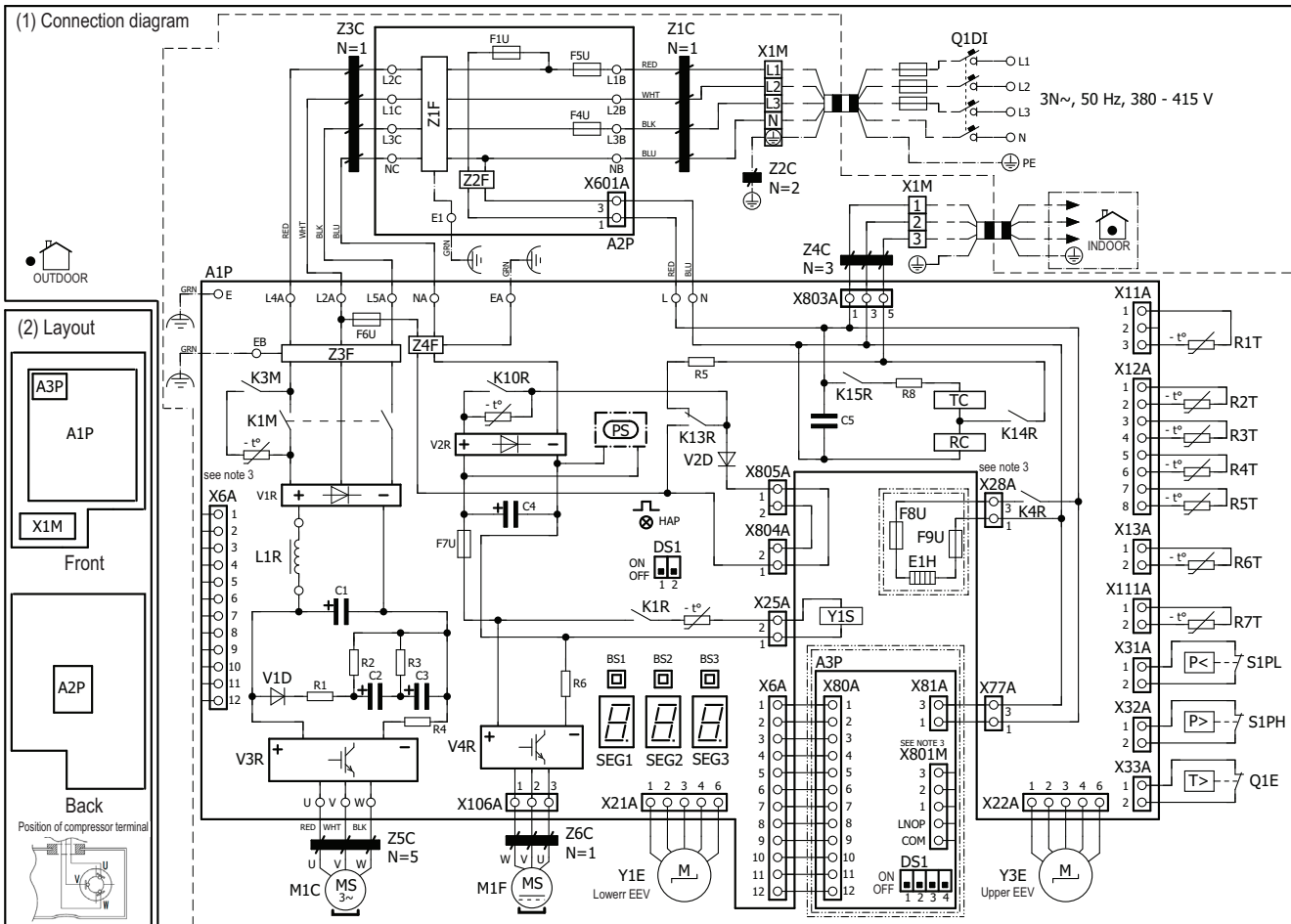
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120915

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

RZAG-NY1



(3) NOTES

	: Connection		: switch box
X1M	: Main terminal		: PCB
	: Earth wiring		: Wiring depending on model
	: Field supply		: Protective earth
	: Option		: Field wire

(4) LEGEND

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	* Printed circuit board (demand)
BS1~3 (A1P)	Push-button switch
C1~C5 (A1P)	Capacitor
DS1(A1P,A3P)	Dipswitch
E1H	* Bottom plate heater
F1U (A2P)	Fuse T 6,3 A 250 V
F4U, F5U (A2P)	Fuse T 30 A 500 V
F6U (A1P)	Fuse T 6,3 A 250 V
F7U (A1P)	Fuse T 5 A 250 V
F8U, F9U	* Fuse F 1 A 250 V
HAP (A1P)	Light-emitting diode (service monitor is green)
K1M, K3M (A1P)	Magnetic contactor
K1R (A1P)	Magnetic relay (Y1S)
K4R (A1P)	Magnetic relay (E1H)
K10R	Magnetic relay
K13R~K15R (A1P)	Reactor
L1R	Reactor
M1C	Compressor motor
M1F	Fan motor
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)

Part n°	Description
Q1E	Overload protection
R1~R6, R8 (A1P)	Resistor
R1T	Thermistor (air)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (liquid)
R7T	Thermistor (fin)
RC (A1P)	Signal receiver circuit
S1PH	High pressure switch
S1PL	Low pressure switch
SEG1~SEG3 (A1P)	7-segment display
TC (A1P)	Signal transmission circuit
V1D, V2D (A1P)	Diode
V1R, V2R (A1P)	Diode module
V3R, V4R (A1P)	IGBT power module
X1M	Terminal strip
Y1E, Y3E	Electronic expansion valve
Y1S	Solenoid valve (4-way valve)
Z1C~Z6C	Noise filter (ferrite core)
Z1F~Z4F (A1P~A2P)	Noise filter
L*A, L*B, NA, NB	Connector
E*, U, V, W, X*A (A1P, A2P)	

* : optional
: field supply

NOTES

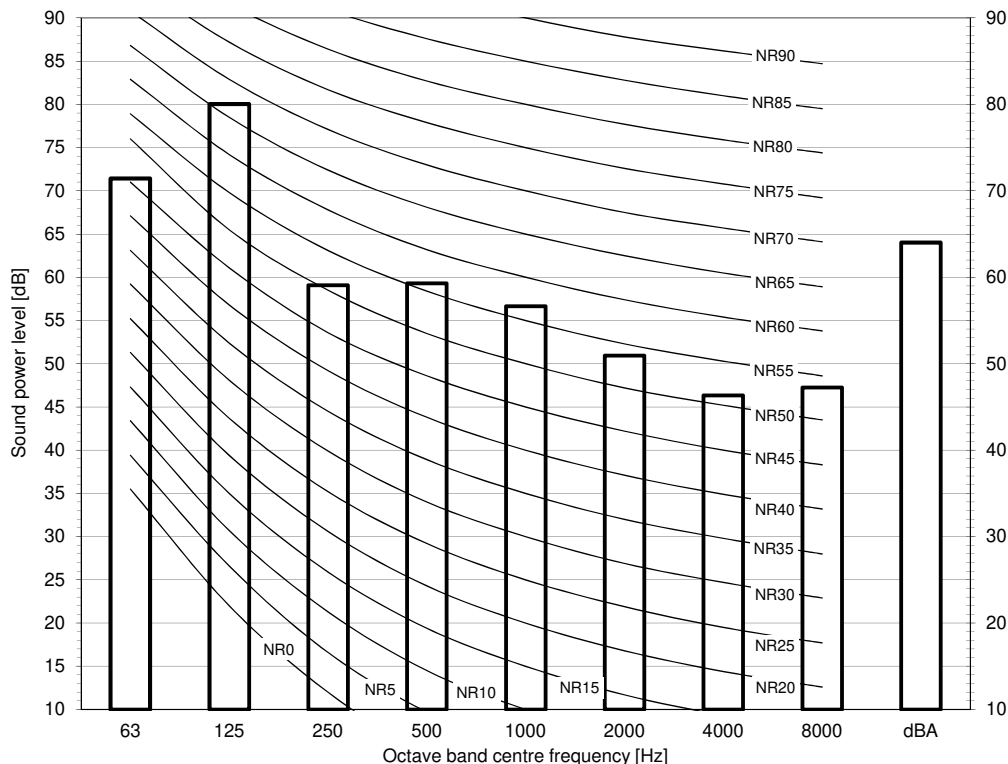
- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
- When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
- Refer to the combination table and the option manual for how to connect the wiring to X28A and X801M.
- Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green

4D120911

11 Sound data

11 - 1 Sound Power Spectrum

RZAG71NV1
RZAG71NY1

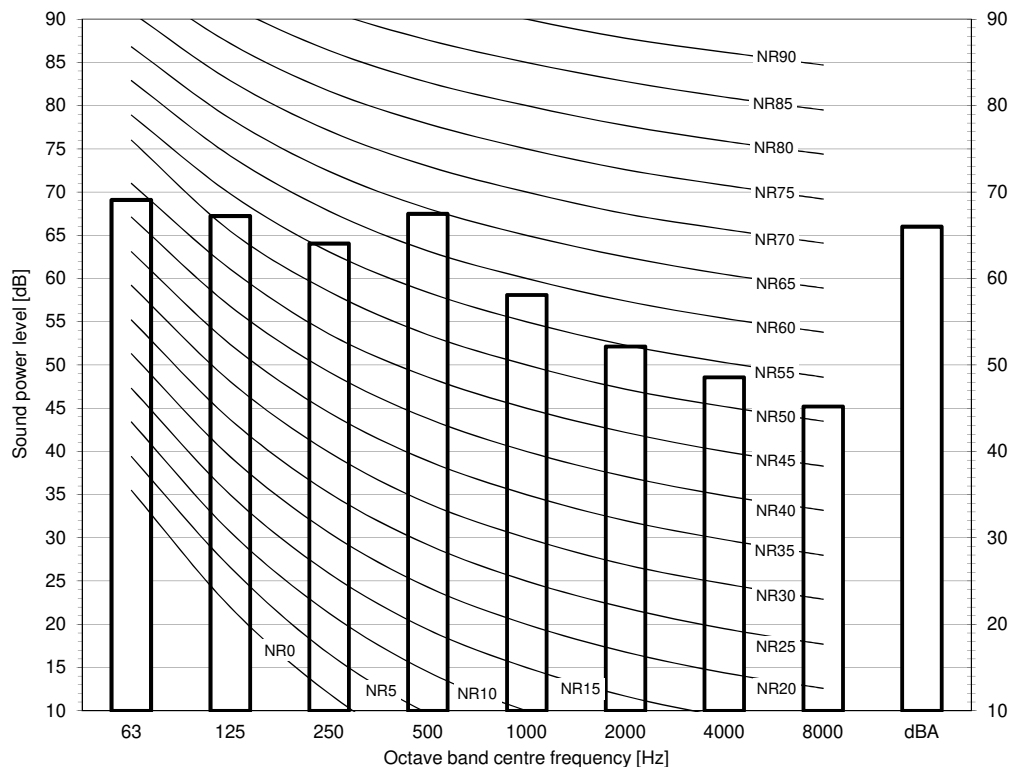


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-6} W/m².
- Measured according to ISO 3744

3D125149

RZAG100NV1
RZAG100NY1



Notes

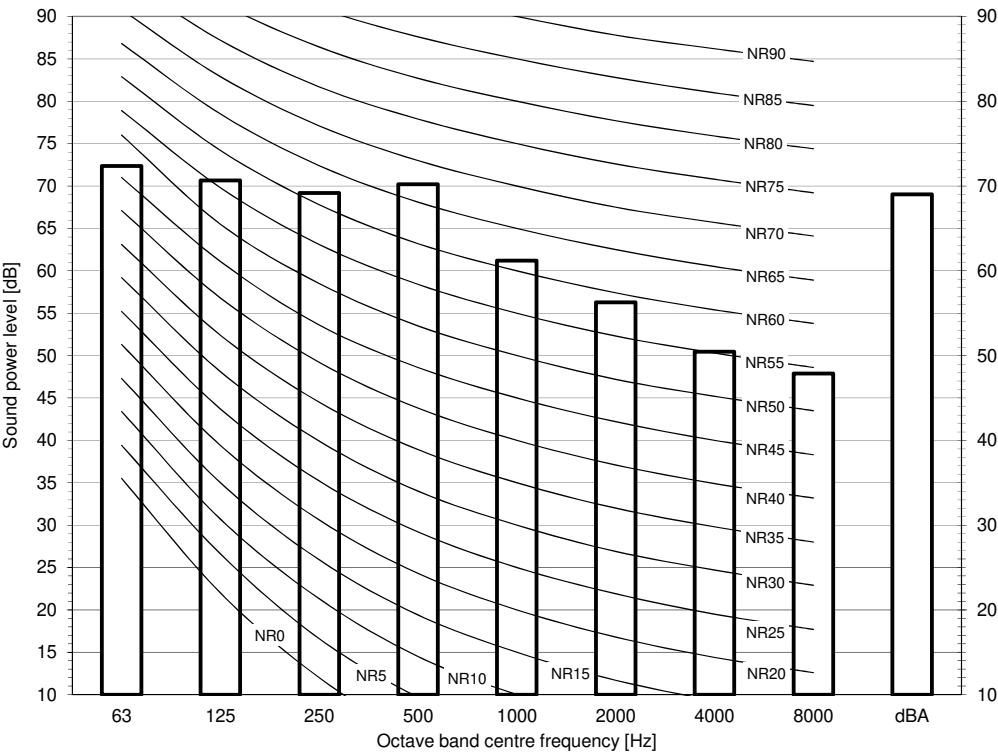
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-6} W/m².
- Measured according to ISO 3744

3D125155

11 Sound data

11 - 1 Sound Power Spectrum

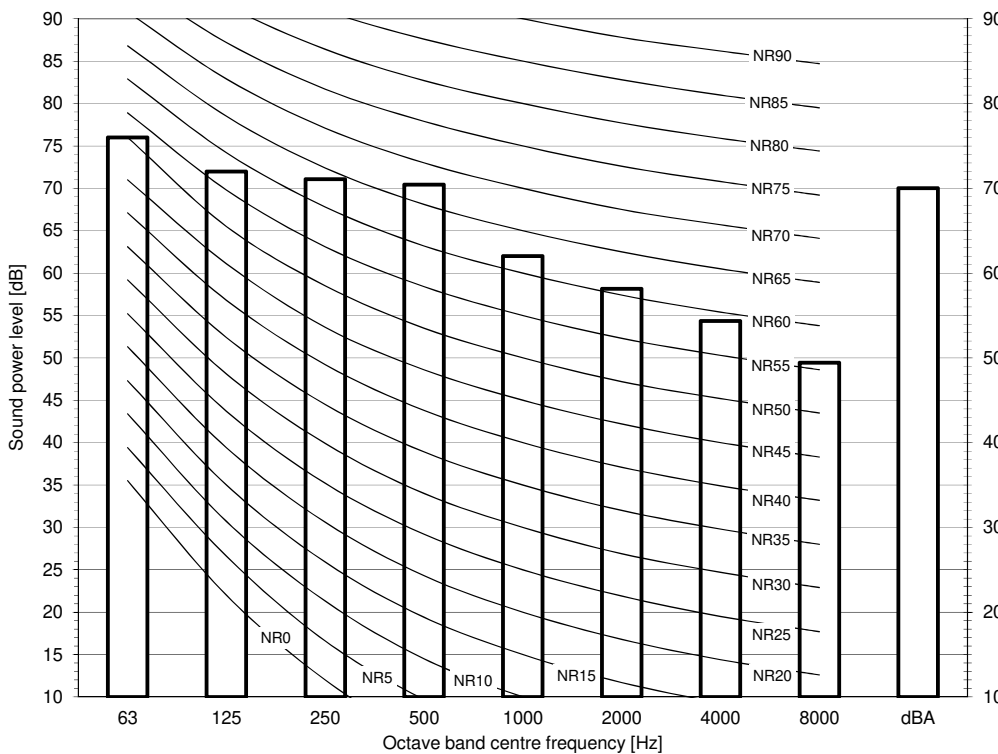
RZAG125NV1
RZAG125NY1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10E-6\mu W/m^2$.
- Measured according to ISO 3744

3D125161

RZAG140NV1
RZAG140NY1



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10E-6\mu W/m^2$.
- Measured according to ISO 3744

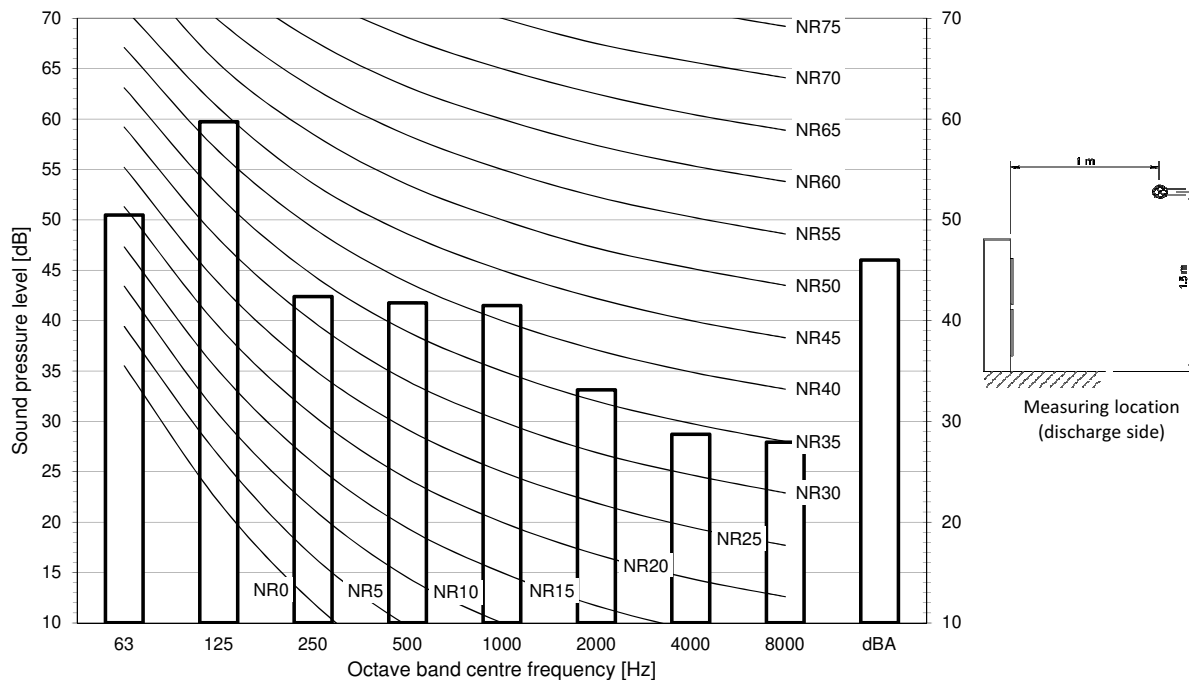
3D125167

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG71NV1

RZAG71NY1



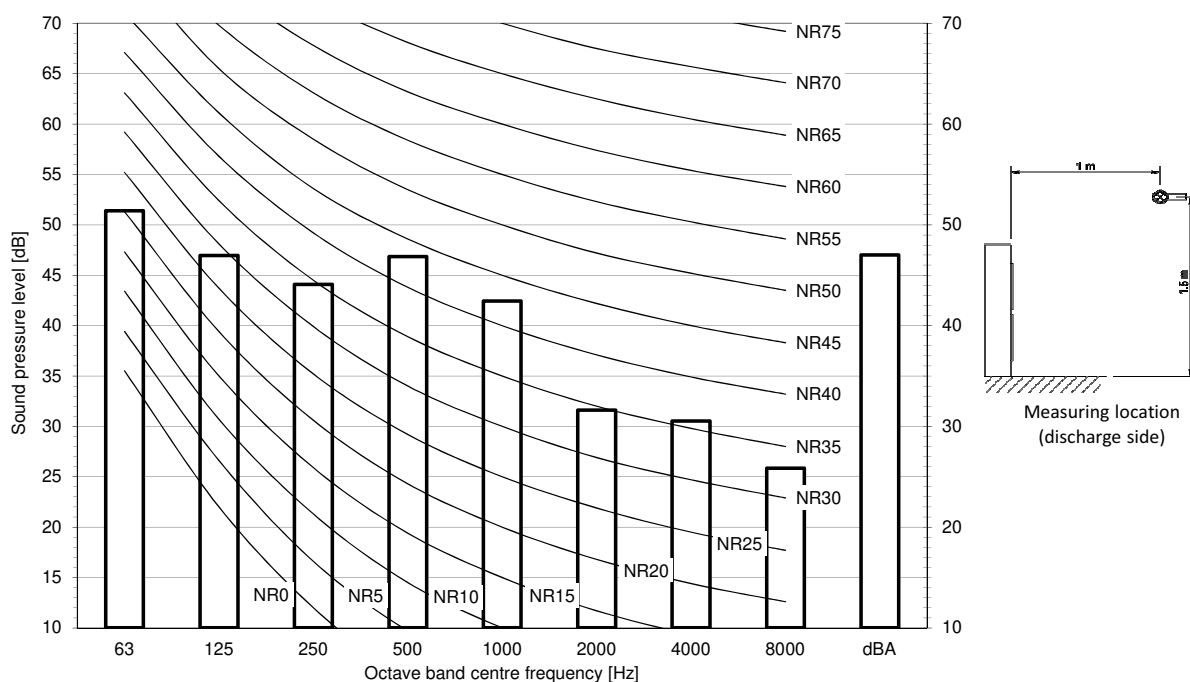
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125147

RZAG100NV1

RZAG100NY1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

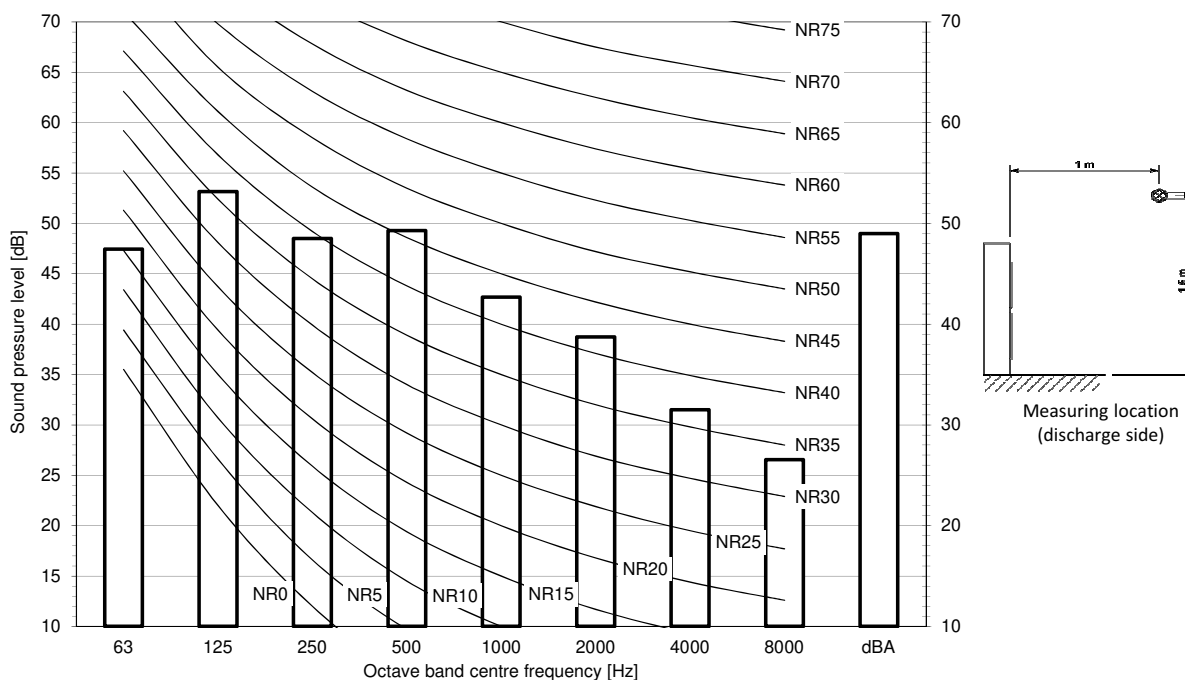
3D125153

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG125NV1

RZAG125NY1



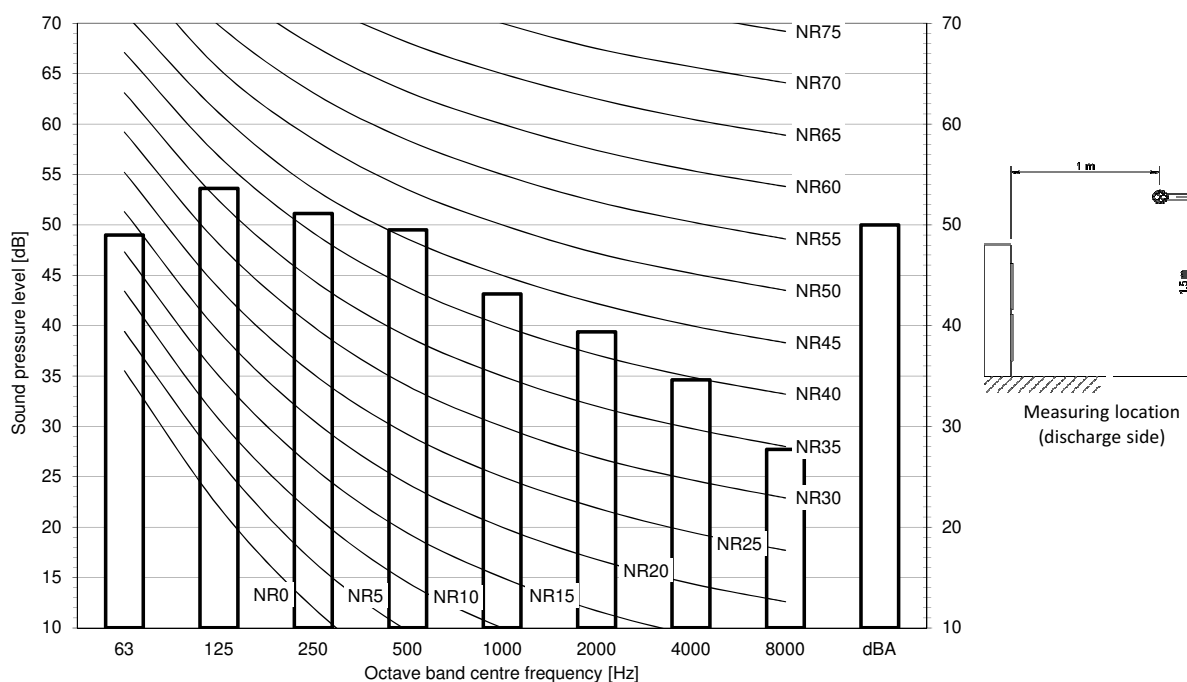
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125159

RZAG140NV1

RZAG140NY1



Notes

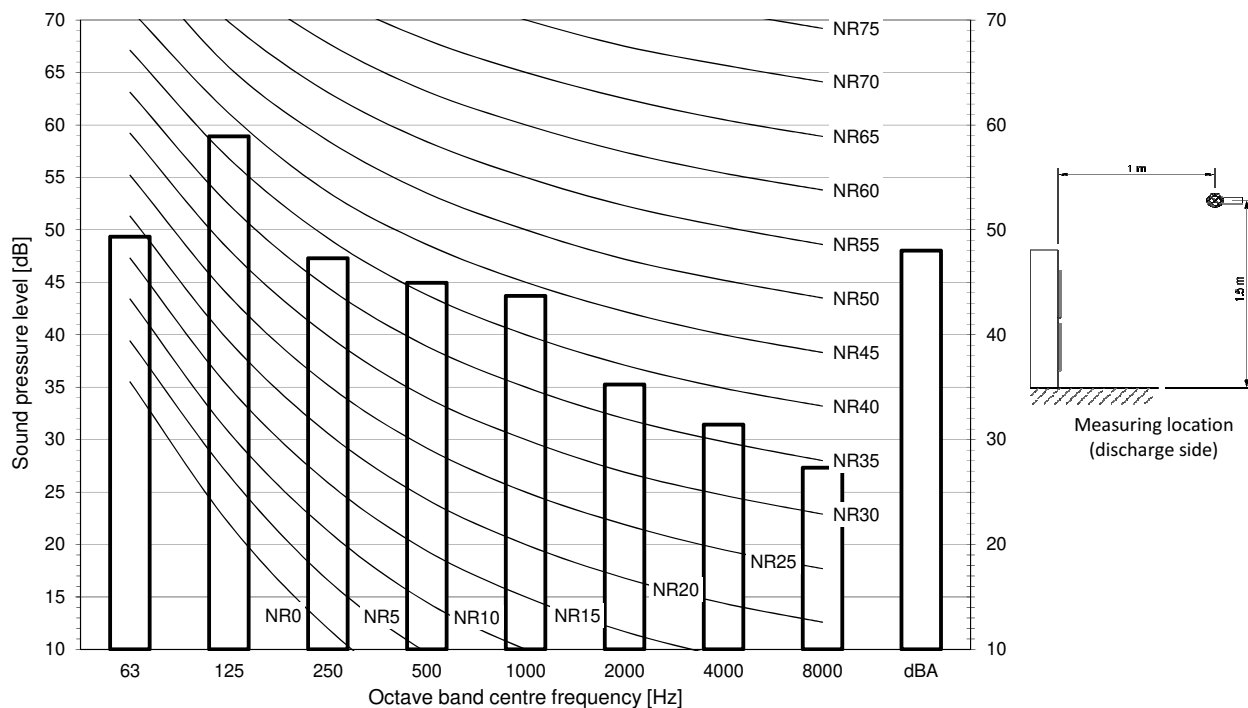
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125165

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG71NV1
RZAG71NY1

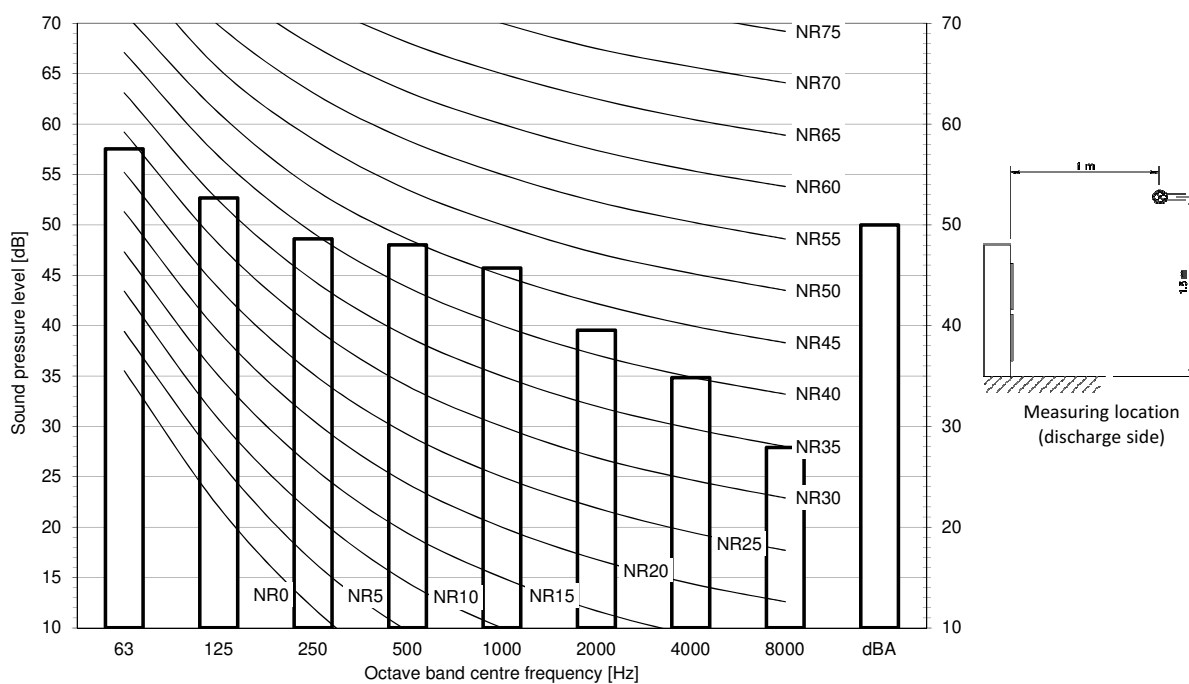


Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125148

RZAG100NV1
RZAG100NY1



Notes

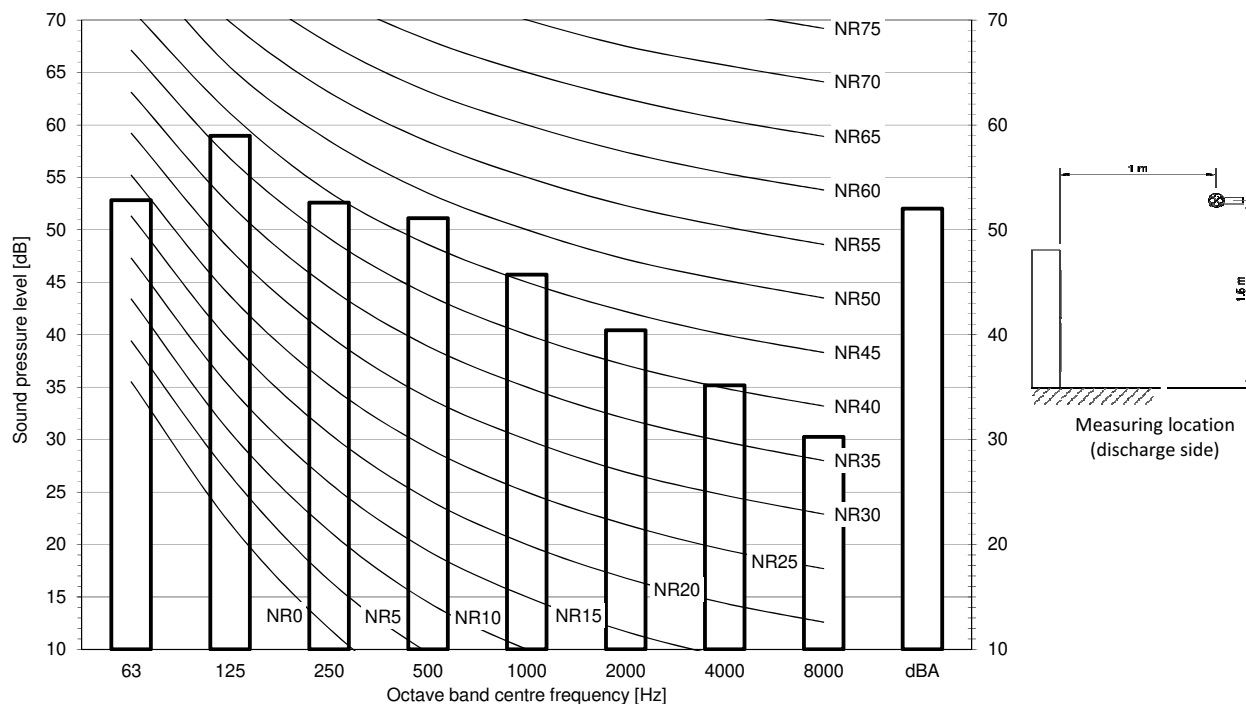
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125154

11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG125NV1
RZAG125NY1

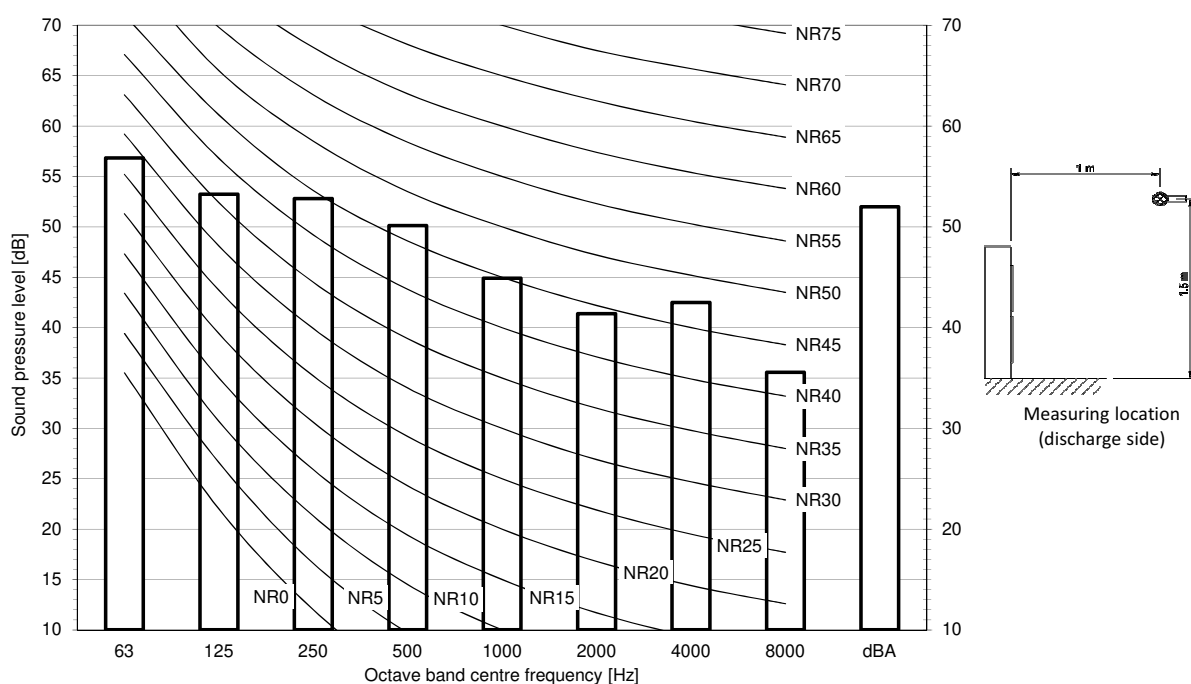


Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125160

RZAG140NV1
RZAG140NY1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

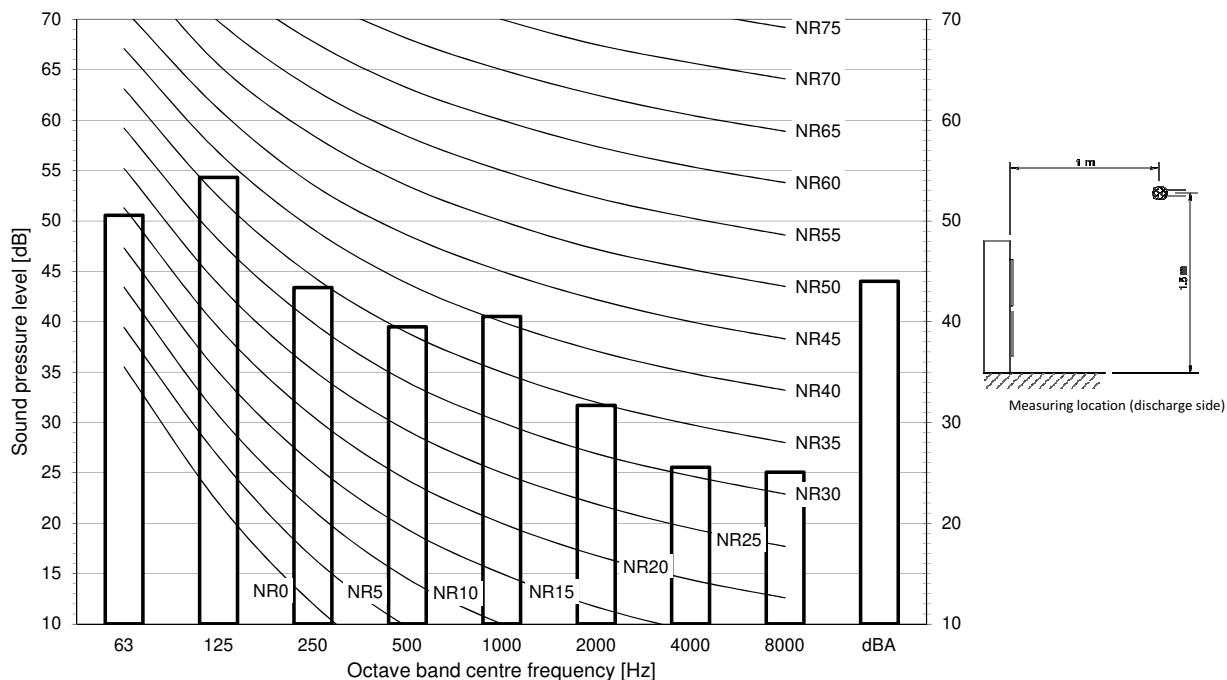
3D125166

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1
RZAG71NY1

LEVEL 1



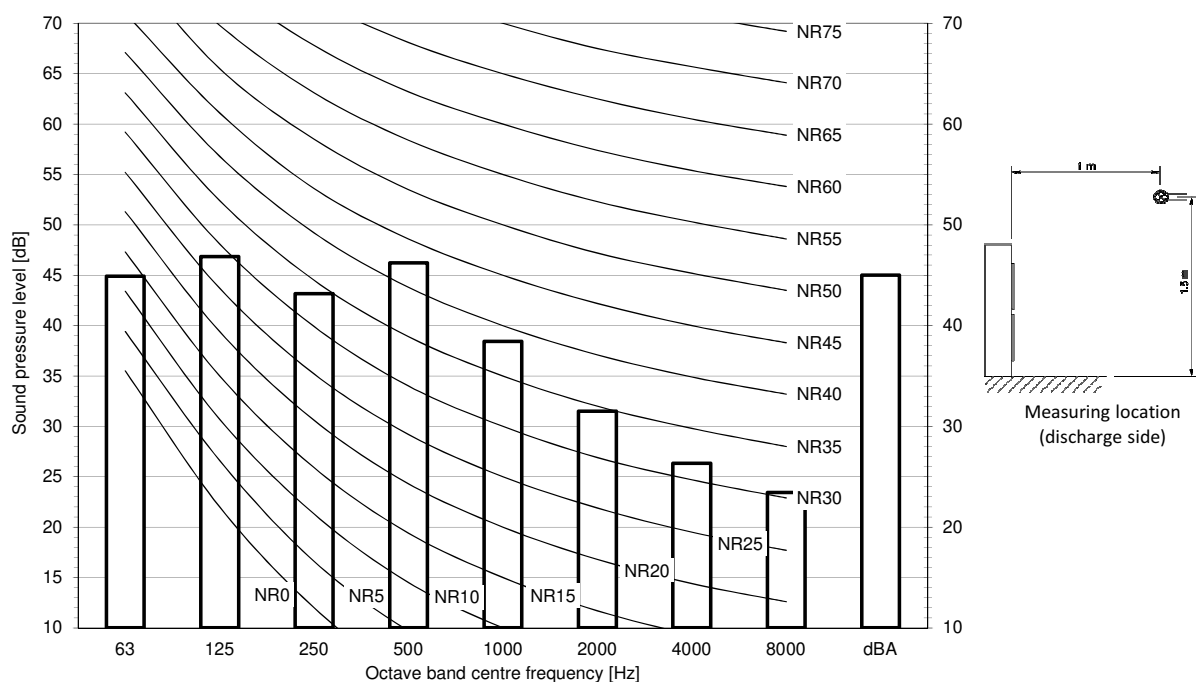
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125144

RZAG100NV1
RZAG100NY1

LEVEL 1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

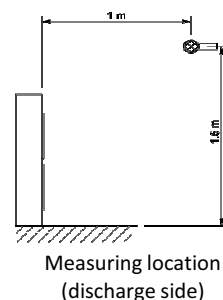
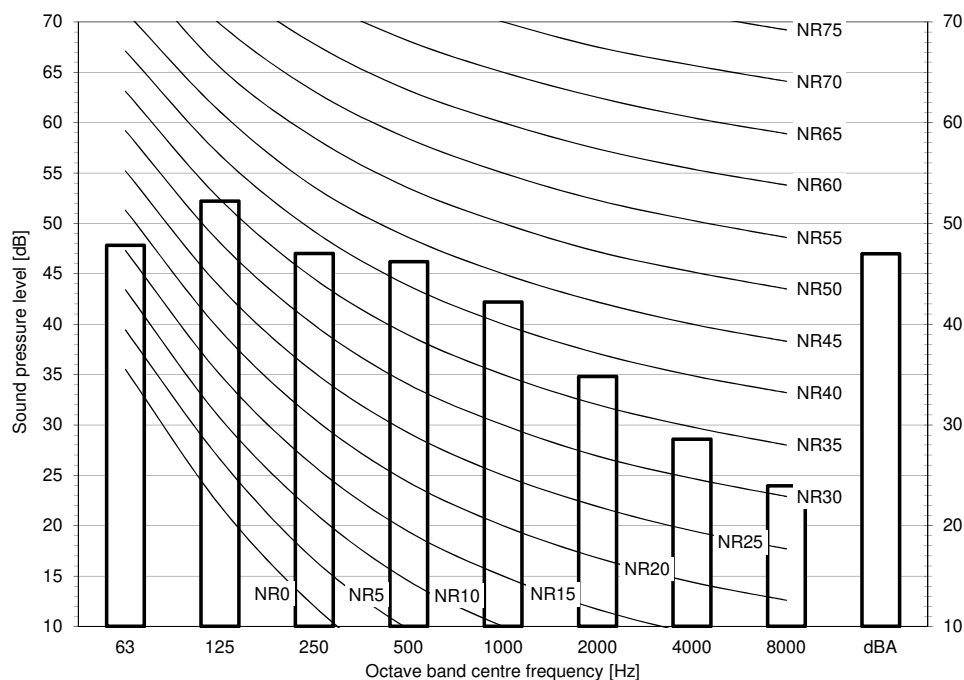
3D125150

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1
RZAG125NY1

LEVEL 1



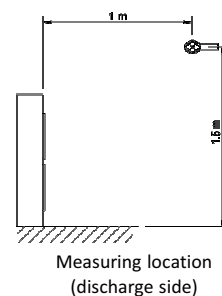
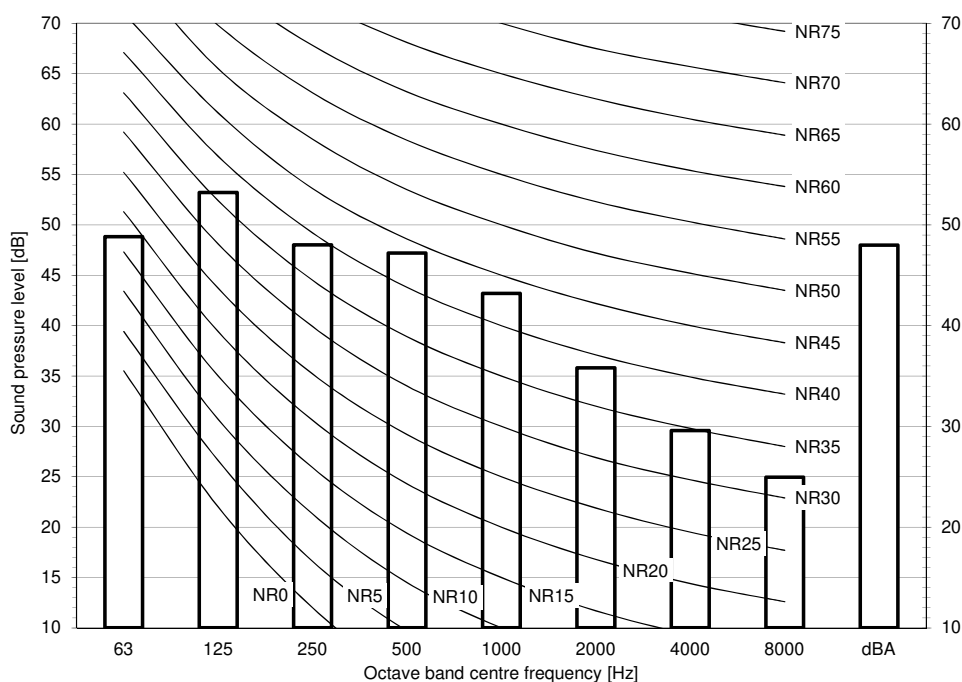
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125156

RZAG140NV1
RZAG140NY1

LEVEL 1



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

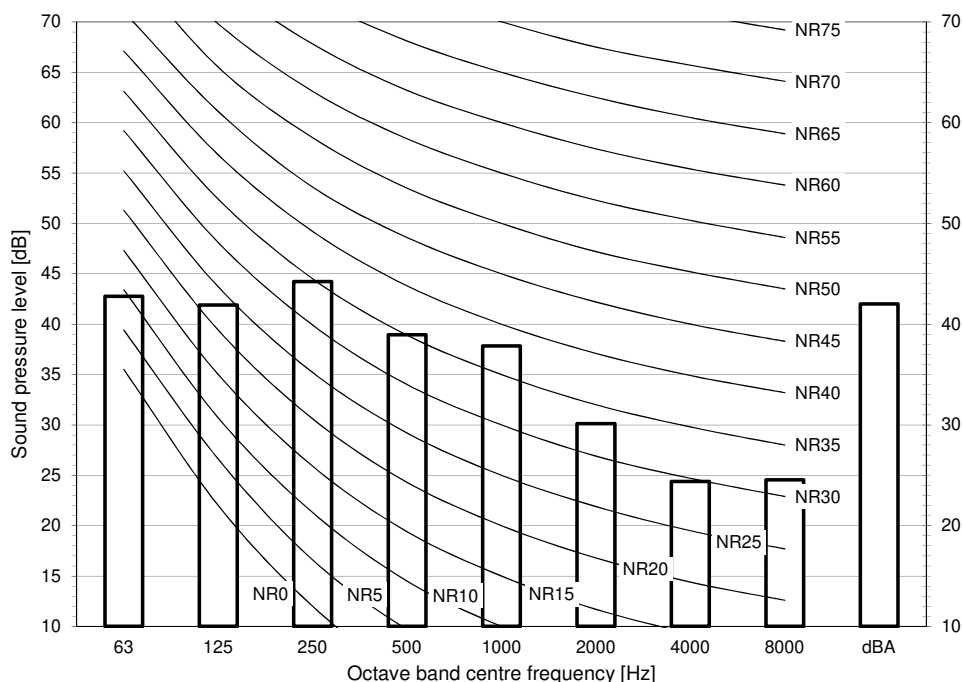
3D125162

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1
RZAG71NY1

LEVEL 2



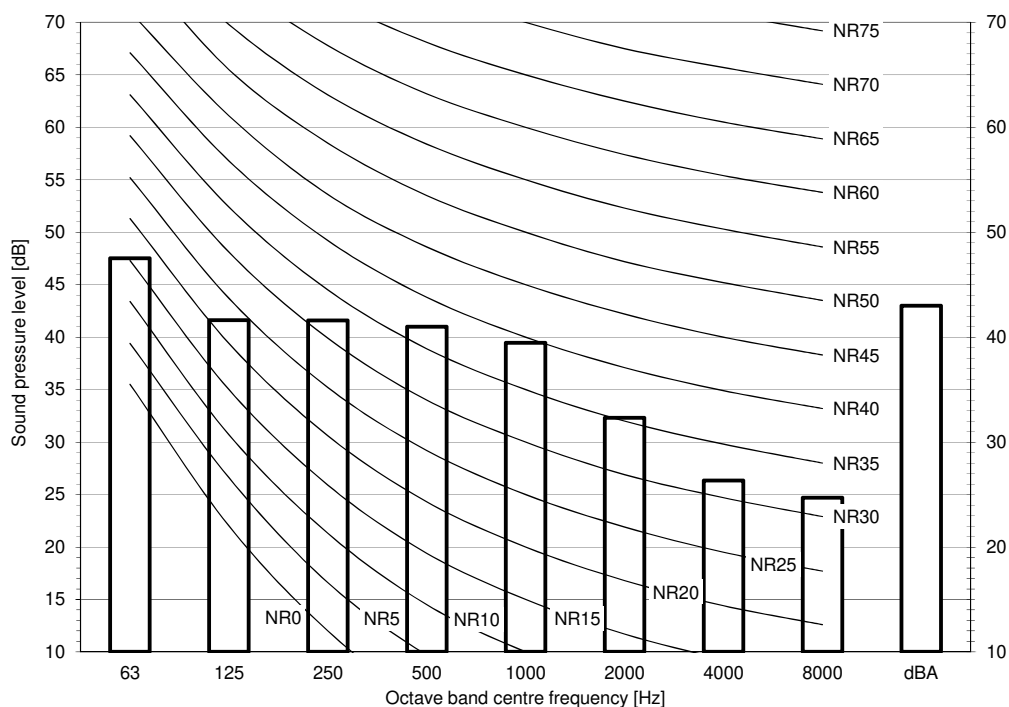
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125145

RZAG100NV1
RZAG100NY1

LEVEL 2



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

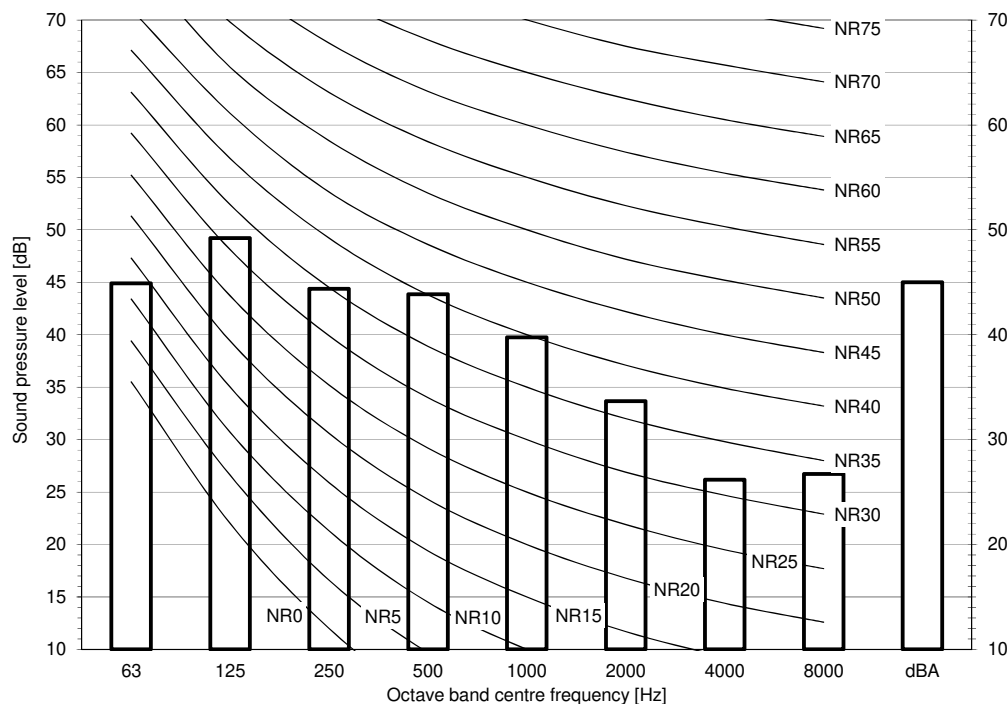
3D125151

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1
RZAG125NY1

LEVEL 2



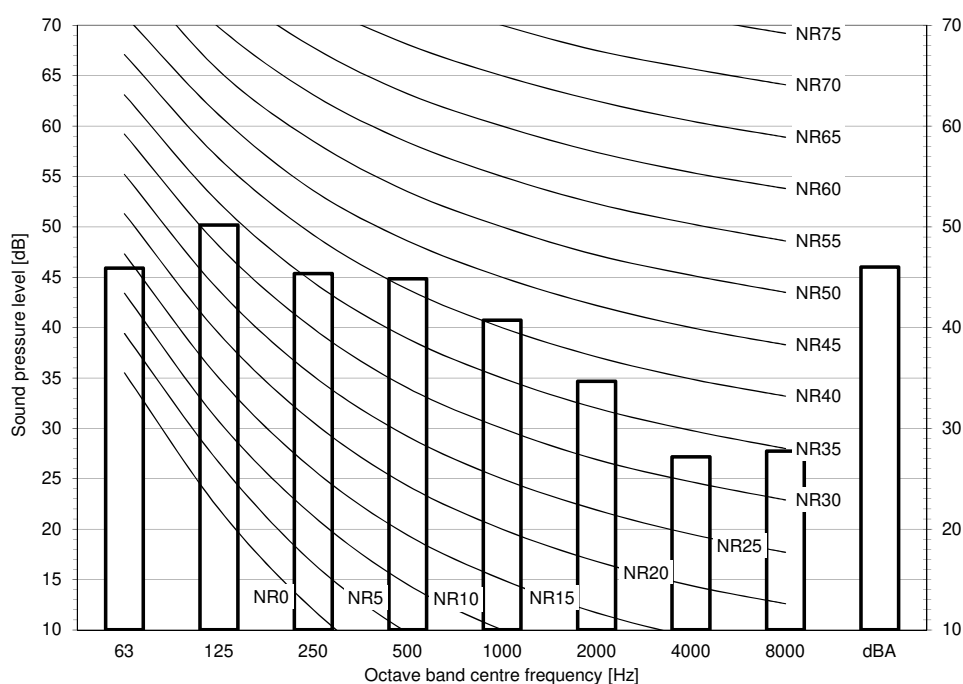
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

3D125157

RZAG140NV1
RZAG140NY1

LEVEL 2



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

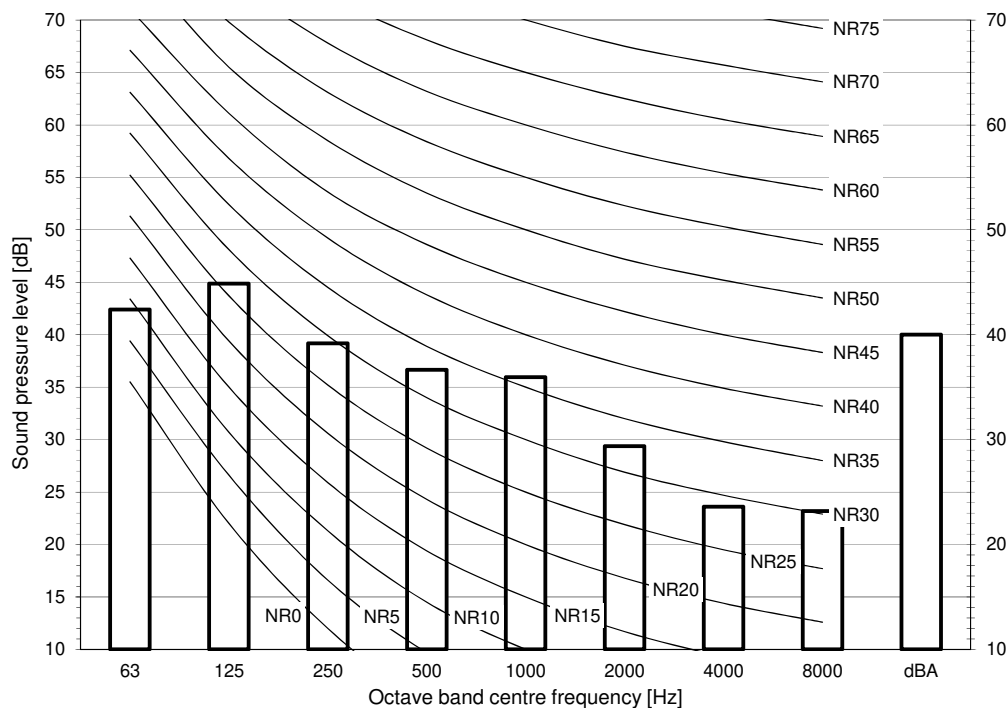
3D125163

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1
RZAG71NY1

LEVEL 3



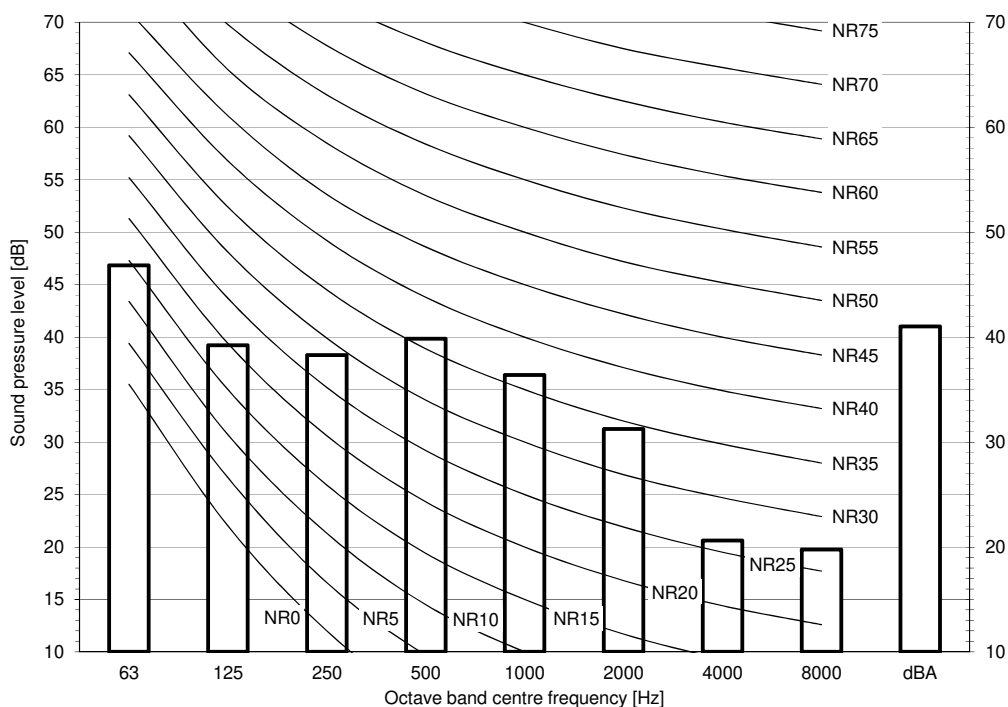
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125146

RZAG100NV1
RZAG100NY1

LEVEL 3



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

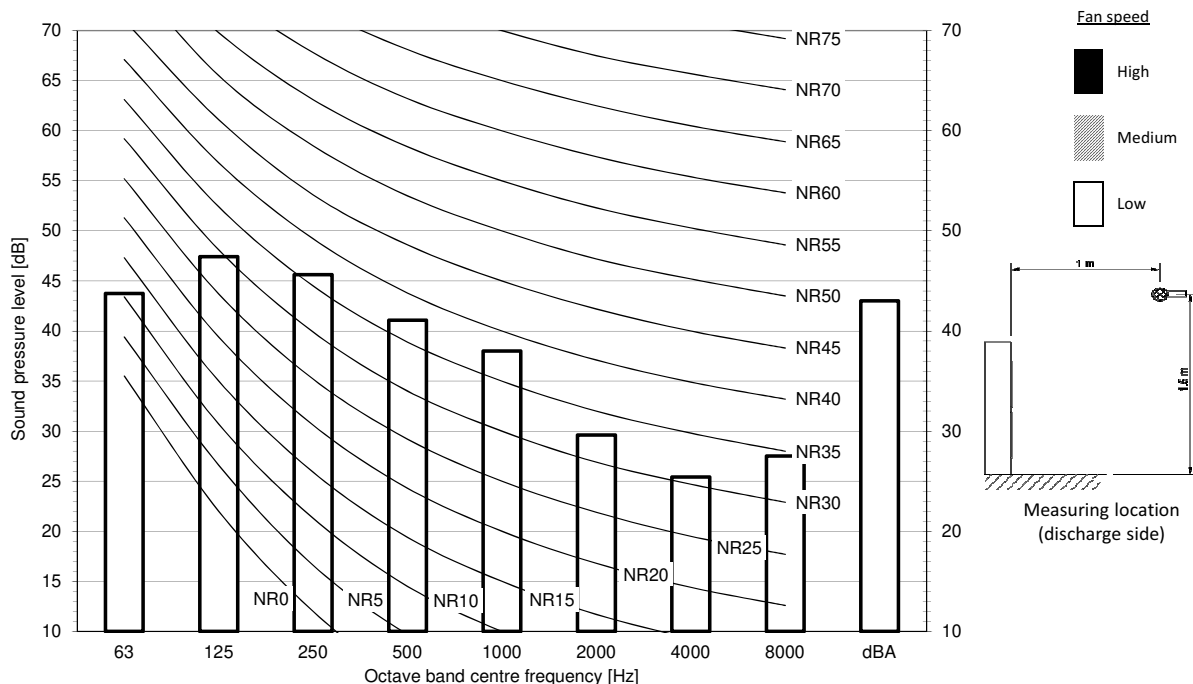
3D125152

11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1
RZAG125NY1

LEVEL 3



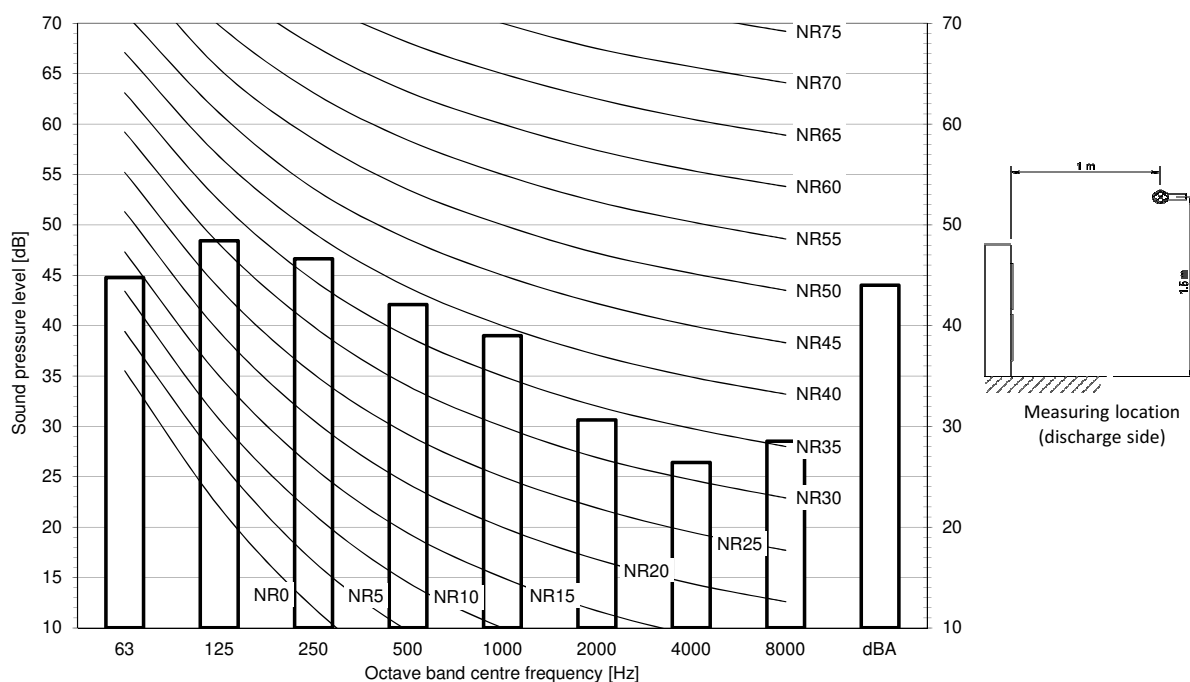
Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125158

RZAG140NV1
RZAG140NY1

LEVEL 3



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μ Pa

3D125164

12 Installation

12 - 1 Installation Method

RZAG-NV1 RZAG-NY1

Installation service space

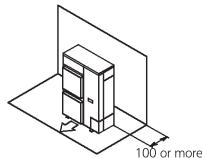
The measure of these values is "mm".

(A) When there are obstacles on suction sides.

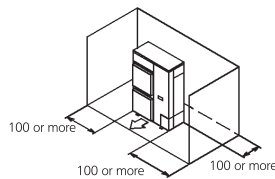
• No obstacle above

① Stand-alone installation

- Obstacle on the suction side only

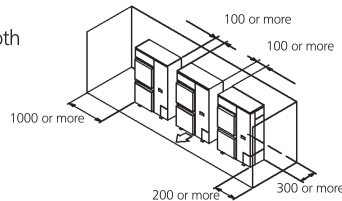


- Obstacle on both sides and suction side, too



② Series installation (2 or more) (Note 1)

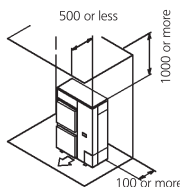
- Obstacle on the suction side and both sides



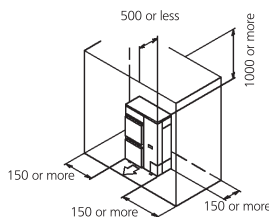
• Obstacle above, too.

① Stand-alone installation

- Obstacle on the suction side, too

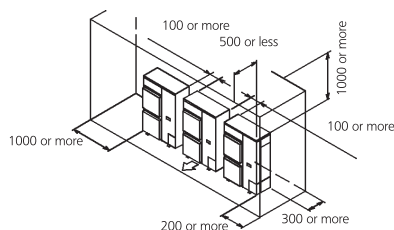


- Obstacle on both sides and suction side, too



② Series installation (2 or more) (Note 1)

- Obstacle on the suction side and both sides

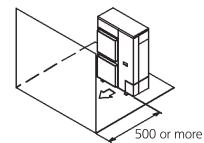


(B) When there are obstacles on discharge sides.

• No obstacle above

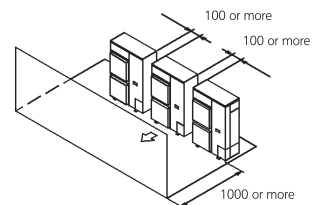
① Stand-alone installation

- Obstacle on the discharge side only



② Series installation (2 or more) (Note 1)

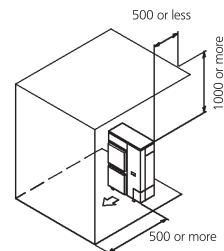
- Obstacle on the discharge side only



• Obstacle above, too

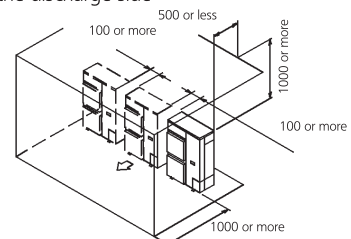
① Stand-alone installation

- Obstacle on the discharge side only, too



② Series installation (2 or more) (Note 1)

- Obstacle on the discharge side



(C) When there are obstacles on both suction and discharge sides.:

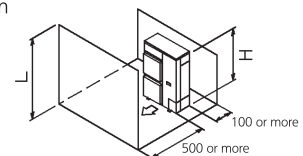
Pattern 1

When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

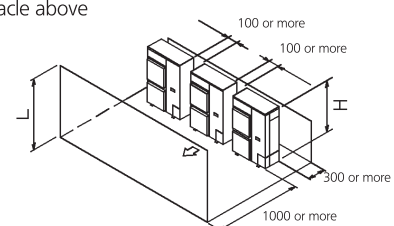
① Stand-alone installation

- No obstacle above



② Series installation (2 or more) (Note 1)

- No obstacle above



3D069554

12 Installation

12 - 1 Installation Method

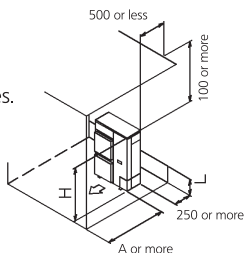
RZAG-NV1 RZAG-NY1

● Obstacle above, too

- ① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 750 or more	250 or more
	$1/2 H < L \leq H$ 1000 or more	
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	



- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on suction, discharge and top sides.

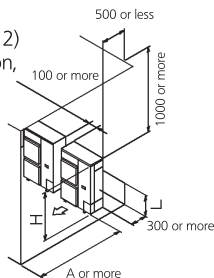
The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 1000 or more	250 or more
	$1/2 H < L \leq H$ 1250 or more	
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.

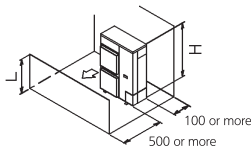
Pattern 2

When the obstacle on the discharge side is lower than the unit ($L \leq H$)
(There is no limit for the height of obstructions on the suction side.)



● No obstacle above

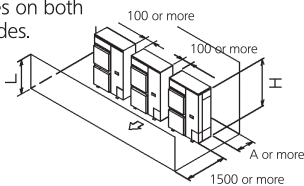
- ① Stand-alone installation
- No obstacle above



- ② Series installation (2 or more) (Note 1, 2)
- When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 250 or more	250 or more
	$1/2 H < L \leq H$ 300 or more	

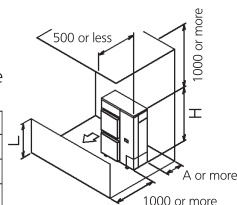


● obstacle above

- ① Stand-alone installation (Note 2)
- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 100 or more	250 or more
	$1/2 H < L \leq H$ 200 or more	
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	



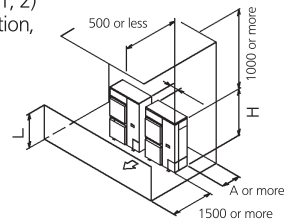
- ② Series installation (2 or more) (Note 1, 2)

- When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

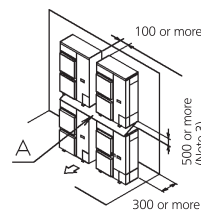
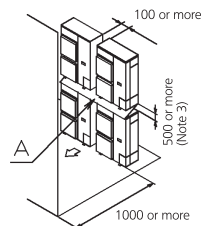
	L	A
$L \leq H$	$L \leq 1/2 H$ 250 or more	250 or more
	$1/2 H < L \leq H$ 300 or more	
$L > H$	Set the stand as : $L \leq H$ Refer to the column of $L \leq H$ for A	

Limit of series installation is 2 units.



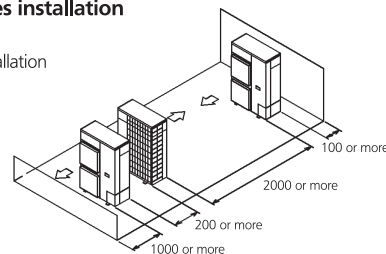
(D) Double-decker installation

- ① Obstacle on the discharge side. (1)
- Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.
- ② Obstacle on the suction side. (1)
- Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



(E) Multiple rows of series installation (on the rooftop, etc.)

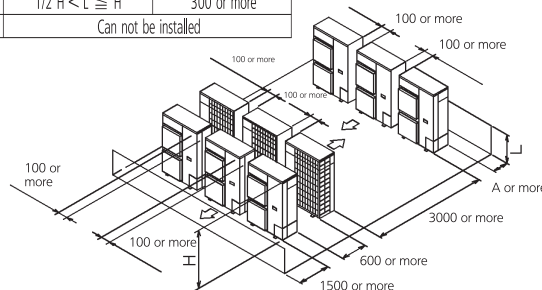
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

	L	A
$L \leq H$	$L \leq 1/2 H$ 250 or more	250 or more
	$1/2 H < L \leq H$ 300 or more	
$L > H$	Can not be installed	



NOTES

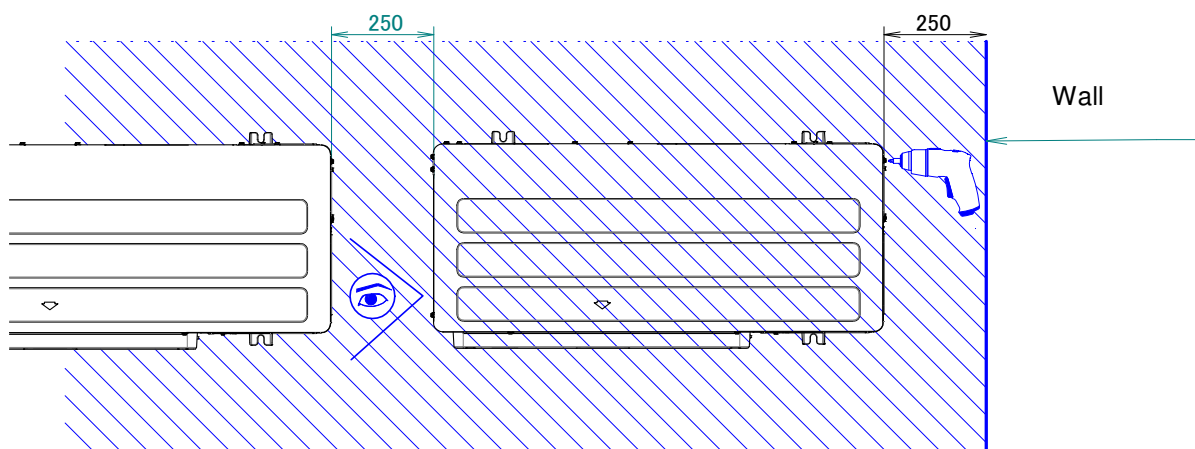
- In case of the sideways piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. Close off the gap between the upper and lower units so there is no re intake of discharged air.

3D069554

12 Installation

12 - 1 Installation Method

RZAG-NV1
RZAG-NY1



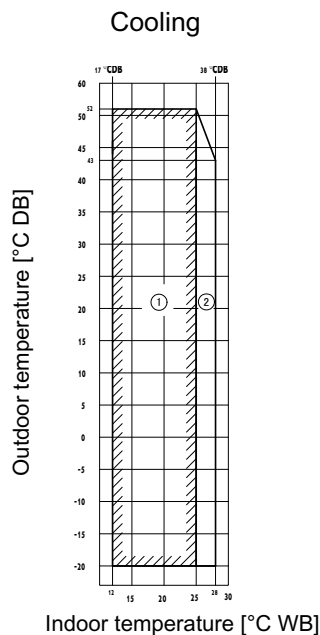
- * For optimal serviceability, provide ≥ 250 ·mm of free space.
For more installation and service space guidelines, see drawing ·3D069554·.

3D120935

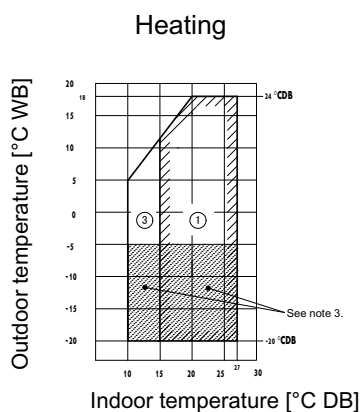
13 Operation range

13 - 1 Operation Range

RZAG-NV1 RZAG-NY1



- ① Operation range
- ② Pull-down operation range
- ③ Warm-up operation range

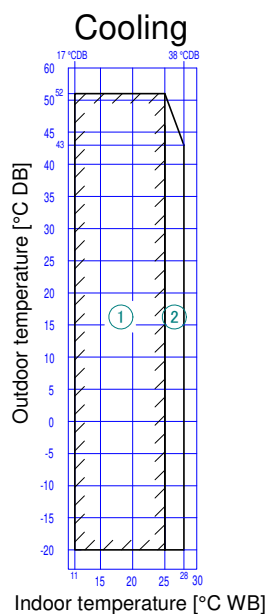


Notes

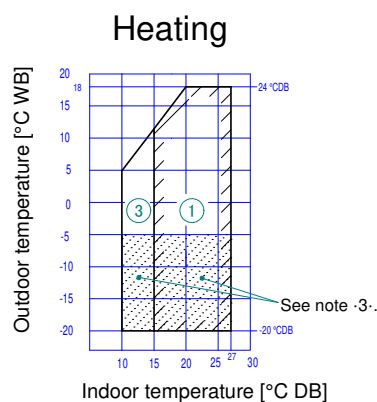
1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature < -5°C for 5 days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110020A

RZAG-NV1 RZAG-NY1



- ① Operation range
- ② Pull-down operation range
- ③ Warm-up operation range



Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature < -5°C for -5- days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110022

14 Appropriate Indoors

14 - 1 Appropriate Indoors

14

RZAG-NV1

RZAG-NY1

ENER Lot 21

Appropriate indoor units

Connectable to ·RZAG125N7V1B / RZAG125N7Y1B· and covered by ·ENER Lot 21·

FCAG125	FCAG35	FFA35	FBA35	FNA35	FUA125	-	FDA125	FVA125	FDXM35	FHA35	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-
-	FCAG60	FFA60	FBA60	FNA60	-	-	-	-	FDXM60	FHA60	-
-	FCAG125	-	FBA125	-	-	-	-	-	-	FHA125	-

Connectable to ·RZAG140N7V1B / RZAG140N7Y1B· and covered by ·ENER Lot 21·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-
FCAHG140	FCAG50	FFA50	FBA50	FNA50	-	-	-	FVA140	FDXM50	FHA50	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-
-	FCAG140	-	FBA140	-	-	-	-	-	-	FHA140	-

ENER Lot 10

Appropriate indoor units

Connectable to ·RZAG71N7V1B / RZAG71N7Y1B· and covered by ·ENER Lot 10·

FCAHG71	FCAG35	FFA35	FBA35	FNA35	FUA71	FAA71	-	FVA71	FDXM35	FHA35	-
-	FCAG71	-	FBA71	-	-	-	-	-	-	FHA71	-

Connectable to ·RZAG100N7V1B / RZAG100N7Y1B· and covered by ·ENER Lot 10·

FCAHG100	FCAG35	FFA35	FBA35	FNA35	FUA100	FAA100	-	FVA100	FDXM35	FHA35	-
-	FCAG50	FFA50	FBA50	FNA50	-	-	-	-	FDXM50	FHA50	-
-	FCAG100	-	FBA100	-	-	-	-	-	-	FHA100	-

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RZAG125-140NV1

RZAG125-140NY1

ENER Lot 21

Recommended combinations

Sky Air		High Cassette				Thin cassette						2x2 cassette			Duct (medium ESP)						Concealed floor standing type	Ceiling-mounted - 4-way blow			Wall mounted type		Duct (high ESP)				
Model		FCAG71	FCAG100	FCAG125	FCAG140	FCAG35	FCAG50	FCAG60	FCAG71	FCAG100	FCAG125	FCAG140	FFA35	FFA50	FFA60	FBA35	FBA50	FBA60	FBA71	FBA100	FBA125	FBA140	FNA35	FNA50	FNA60	FUA71	FUA100	FUA125	FAA71	FAA100	FDA25
	RZAG125N7V1B			P		4					P					4					P						P				P
	RZAG140N7V1B			P		4					P					4					P						P				P

Sky Air		Floor standing type				Slim duct			Ceiling-suspended						Floor standing type	
Model		FVA71	FVA100	FVA125	FVA140	FDXM35	FDXM50	FDXM60	FHA35	FHA50	FHA60	FHA71	FHA100	FHA125	FHA140	A/A125
RZAG125N7V1B	RZAG125N7Y1B			P										P		
RZAG140N7V1B	RZAG140N7Y1B			P										P		

P= Pair
2= Twin
3= Triple
4= Double twin

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