



# Sky Air Alpha-series Air Conditioning Technical Data RZAG-A





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# RZAG-A

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# 1 Features

## 1 - 1 RZAG-A

Industry leading technology for commercial applications and even for technical rooms

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- › 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
- › 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
- › Maximum piping length up to 50m
- › Exclusively offered for pair applications (capacity from 35 up to 60)



Guaranteed operation down to -20°C



Infrastructure cooling



Inverter



Swing compressor



Seasonal efficiency - Smart use of energy



Replacement technology



Auto cooling-heating changeover



Night quiet mode

## 2 Specifications

### 2 - 1 Specifications

Technical Specifications				RZAG35A	RZAG50A	RZAG60A	
Casing	Colour			Ivory white			
Dimensions	Unit	Height	mm	734			
		Width	mm	870			
		Depth	mm	373			
	Packed unit	Height	mm	820			
		Width	mm	1,050			
Depth		mm	480				
Weight	Unit			52			
	Packed unit			57			
Packing	Weight			5			
Heat exchanger	Length			920			
	Rows	Quantity	2				
	Fin pitch			1.40			
	Passes	Quantity	2.0				
	Stages	Quantity	32				
	Tube type			ø7 Hi-XD			
	Fin	Type	Waffle fin (PE)				
	Fan	Type	Propeller fan				
		Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	55.1	
				cfm	1,947		
		Heating	Nom.	m <sup>3</sup> /min	55.1		
			cfm	1,947			
Fan motor	Model	D55F-31					
	Output	W					
	Speed	Cooling	High	rpm	780		
			Nom.	rpm	740	780	
			Low	rpm	580	620	640
		Heating	High	rpm	740		
			Nom.	rpm	740		
			Low	rpm	460		
Compressor	Model	2YC40JXD#C					
	Oil Amount			cm <sup>3</sup>			
	Type	Hermetically sealed swing compressor					
	Output	W					
	Oil Type	FW68DA					
Sound power level	Cooling			62.0	63.0	64.0	
Sound power level	Heating			62.0	63.0	64.0	
Sound pressure level	Cooling	Nom.			48.0	49.0	50.0
		Heating	Nom.			48.0	49.0
Refrigerant	Type	R-32					
	Charge			kg			
	GWP	675.0					
Piping connections	Liquid	OD			mm		
					9.50	12.7	
	Gas	OD			mm		
		Drain	OD	mm			
	Piping length	OU - IU	Max.			m	
			System	Chargeless	m		
	Additional refrigerant charge			kg/m			
	Level difference	IU - OU	Max.			m	
	Heat insulation	Both liquid and gas pipes					
Capacity control	Method	Variable (inverter)					

Standard accessories: Drain plug;Quantity: 1;

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Refrigerant charge label;Quantity: 1;

Standard accessories: Multilingual fluorinated greenhouse gases labels;Quantity: 1;

Standard accessories: Drain cap (1);Quantity: 6;

Standard accessories: Drain cap (2);Quantity: 3;

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: LOT10 Energy Label;Quantity: 1;

Electrical Specifications				RZAG35A	RZAG50A	RZAG60A
Power supply	Phase			1~		
	Frequency			Hz		
	Voltage			V		
Wiring connections	For power supply	Remark		Earth wire included		
	For connection with indoor	Remark		Earth wire included		

See separate drawing for operation range |

See separate drawing for electrical data |

Contains fluorinated greenhouse gases

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FCAG35B + RZAG35A		FCAG50B + RZAG35A		FCAG50B + RZAG50A		FCAG60B + RZAG50A		FCAG60B + RZAG60A		FCAG71B + RZAG60A		
Cooling capacity	Min.		kW	1.6				1.7								
	Min.		Btu/h	5,500.0				5,800.0								
	Min.		kcal/h	1,376.0				1,462.0								
	Nom.		kW	3.5				5.0				6.0				
	Nom.		Btu/h	11,900.0				17,100.0				20,500.0				
	Nom.		kcal/h	3,009.0				4,299.0				5,159.0				
	Max.		kW	4.5				6.0				6.5				
	Max.		Btu/h	15,400.0				20,500.0				22,200.0				
	Max.		kcal/h	3,869.0				5,159.0				5,589.0				
Heating capacity	Min.		kW	1.40				1.50				1.60				
	Min.		Btu/h	4,800.0				5,100.0				5,500.0				
	Min.		kcal/h	1,200.0				1,290.0		1,300.0		1,380.0		1,400.0		
	Nom.		kW	4.00				5.80				7.00				
	Nom.		Btu/h	13,700.0		13,600.0		19,800.0				23,900.0				
	Nom.		kcal/h	3,439.0				4,987.0				6,019.0				
	Max.		kW	5.00				6.00				7.50				
	Max.		Btu/h	17,000.0		17,100.0		20,500.0				25,600.0				
	Max.		kcal/h	4,299.0				5,159.0				6,449.0				
	Power input	Cooling	Nom.	kW	0.80	0.77	1.28	1.26	1.76	1.58						
		Heating	Nom.	kW	0.93	0.91	1.56	1.55	2.06	1.98						
	Nominal efficiency	EER			4.40	4.57	3.90	3.98	3.40	3.79						
COP				4.30	4.41	3.71	3.75	3.40	3.53							
Annual energy consumption			kWh	398	383	641	628	882	792							
Energy labeling Directive		Cooling						A				C		B		
Space cooling	Energy efficiency class							A++								
	Capacity	Pdesign	kW	3.50				5.00				6.00				
Space heating (Average climate)	SEER			7.30	7.40	6.80	6.93	6.60	6.82							
	Annual energy consumption		kWh/a	168	166	257	252	318	308							
	Energy efficiency class							A+								
	Capacity	Pdesign	kW	3.30				4.30				4.60				
Space cooling	SCOP/A			4.30	4.41	4.30	4.35	4.25	4.39							
	SCOPnet/A			4.34	4.45	4.34	4.39	4.29	4.43							
	Pdh Heating capacity at -10°		kW	2.91				3.68				3.96				
	Annual energy consumption		kWh/a	1,074	1,048	1,398	1,384	1,515	1,467							
	Required back up heating cap at design conditions		kW	0.39				0.62				0.64				
	A Condition	Pdc	kW	3.50				5.00				6.00				
	(35°C - 27/19)	EERd		4.40	4.57	3.90	3.98	3.40	3.79							
		Power input	kW	0.80	0.77	1.28	1.26	1.76	1.58							
	B Condition	Pdc	kW	2.58				3.68				4.42				
	(30°C - 27/19)	EERd		7.04	6.92	5.82	5.95	5.74	5.92							
		Power input	kW	0.37				0.63				0.77				
	C Condition	Pdc	kW	1.50	1.87	2.37		2.84								
(25°C - 27/19)	EERd		9.98	10.74	8.41	8.54	7.65	7.89								
	Power input	kW	0.15	0.17	0.28		0.37		0.36							
D Condition	Pdc	kW	1.59	1.85		1.88		1.92								
(20°C - 27/19)	EERd		13.20	13.42	12.89	13.30	12.82	12.98								
	Power input	kW	0.12					0.14				0.15				
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C					-20								
		Pdh (declared heating cap)	kW	2.87	2.90	3.30	3.47	3.59	3.77							
		COPd (declared COP)		2.24	2.28	2.15	2.16	2.11	2.19							
		Power input	kW	1.28	1.27	1.53	1.61	1.70	1.72							
	TBivalent	Tbiv (bivalent temperature)	°C	-7	-7.0	-7	-7.0	-7	-7.0							
		Pdh (declared heating cap)	kW	2.92				3.80				4.07				
		COPd (declared COP)		2.71	2.79	2.65	2.68	2.59	2.69							
		Power input	kW	1.08	1.05	1.43	1.42	1.57	1.51							
	A Condition	Pdh (declared heating cap)	kW	2.92				3.80				4.07				
	(-7°C)	COPd (declared COP)		2.71	2.79	2.65	2.68	2.59	2.69							
		Power input	kW	1.08	1.05	1.43	1.42	1.57	1.51							
	B Condition	Pdh (declared heating cap)	kW	1.78				2.32				2.48				
	(2°C)	COPd (declared COP)		4.14	4.27	4.08	4.13	4.02	4.17							
		Power input	kW	0.43	0.42	0.57	0.56	0.62	0.59							
	C Condition	Pdh (declared heating cap)	kW	1.42	1.51		1.52		1.59							
	(7°C)	COPd (declared COP)		6.18	6.33	6.16	6.19	6.12	6.25							
		Power input	kW	0.23	0.24	0.25		0.26		0.25						
	D Condition	Pdh (declared heating cap)	kW	1.57	1.60		1.61		1.63							
	(12°C)	COPd (declared COP)		7.83	8.02	7.88	7.97	7.88	8.05							
		Power input	kW					0.20								

## 2 Specifications

### 2 - 1 Specifications

Technical specifications					FCAG35B + RZAG35A	FCAG50B + RZAG35A	FCAG50B + RZAG50A	FCAG60B + RZAG50A	FCAG60B + RZAG60A	FCAG71B + RZAG60A
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW						0.000
		Heating	PCK	kW						0.000
	Off mode	Cooling	POFF	kW						0.012
		Heating	POFF	kW						0.012
Standby mode	Cooling	PSB	kW						0.012	
	Heating	PSB	kW						0.012	
Power consumption in other than active mode	Thermo-stat-off mode	Cooling	PTO	kW						0.004
	Thermo-stat-off mode	Heating	PTO	kW						0.023
		Cooling								0.25
Heating									0.25	
Cooling function included										Yes
Heating function included										Yes
Average climate included										Yes
Cold season included										No
Warm season included										No
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	62		63		64	
		Heating	Nom.	dB(A)	49		51			
	Piping length	Cooling	Measuring condition	m						5.0

Technical specifications					FFA35A9 + RZAG35A	FFA50A9 + RZAG35A	FFA50A9 + RZAG50A	FFA60A9 + RZAG50A	FFA60A9 + RZAG60A			
Indoor unit					-		FFA50A2VEB9		FFA60A2VEB9			
Outdoor unit					-		RZAG35A2V1B		RZAG50A2V1B			
Cooling capacity	Min.	kW			1.6		1.7					
		Btu/h			5,500.0		5,800.0					
	Min.	kcal/h			1,376.0		1,462.0					
		kW			3.5		5.0		6.0			
	Nom.	Btu/h			11,900.0		17,100.0		20,500.0			
		kcal/h			3,009.0		4,299.0		5,159.0			
	Max.	kW			4.5		6.0		6.5			
		Btu/h			15,400.0		20,500.0		22,200.0			
	Max.	kcal/h			3,869.0		5,159.0		5,589.0			
		kW			1.40		1.50		1.60			
Heating capacity	Min.	Btu/h			4,780.0		4,800.0		5,100.0			
		kcal/h			1,200.0		1,290.0		1,300.0			
	Min.	kW			4.00		5.80		7.00			
		Btu/h			13,700.0		13,600.0		19,800.0			
	Nom.	kcal/h			3,439.0		4,987.0		6,019.0			
		kW			5.00		6.00		7.50			
	Max.	Btu/h			17,000.0		17,100.0		20,500.0			
		kcal/h			4,299.0		5,159.0		6,449.0			
	Power input	Cooling	Nom.	kW			0.88		0.82		1.47	
			Nom.	kW			1.08		1.02		1.87	
Nominal efficiency	EER	kW			4.00		4.25		3.40		3.62	
		kWh			3.71		3.94		3.10		3.15	
	Annual energy consumption	kWh			438		412		735		691	
		Energy labeling Directive			A		A		D			
Space cooling	Energy efficiency class				A++		A+		A+			
		Capacity	Pdesign			3.50		5.00		6.00		
	SEER	kW			6.40		6.81		6.30		6.43	
	Annual energy consumption	kWh/a			191		180		278		272	
Space heating (Average climate)	Energy efficiency class				A		A+		A+			
		Capacity	Pdesign			4.20		4.30		4.50		
	SCOP/A	kW			3.80		4.04		4.01		4.08	
	SCOPnet/A	kW			3.84		4.08		4.04		4.12	
	Pdh Heating capacity at -10°	kW			3.50		3.53		3.66		3.68	
Space heating (Average climate)	Annual energy consumption			kWh/a		1,546		1,455		1,501		
	Required back up heating cap at design conditions			kW		0.70		0.67		0.64		

## 2 Specifications

### 2 - 1 Specifications

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Technical specifications					FFA35A9 + RZAG35A	FFA50A9 + RZAG35A	FFA50A9 + RZAG50A	FFA60A9 + RZAG50A	FFA60A9 + RZAG60A
Space cooling	A Condition (35°C - 27/19)	Pdc	kW		3.50		5.00		6.00
		EERd		4.00	4.25	3.40	3.62	3.23	
		Power input	kW	0.88	0.82	1.47	1.38	1.86	
	B Condition (30°C - 27/19)	Pdc	kW		2.58		3.68		4.42
		EERd		6.13	6.68	5.68	5.88	4.83	
		Power input	kW	0.42	0.39	0.65	0.63	0.92	
	C Condition (25°C - 27/19)	Pdc	kW		1.66		2.37		2.84
		EERd		8.45	9.15	7.94	8.01	7.08	
		Power input	kW		0.20		0.30		0.40
	D Condition (20°C - 27/19)	Pdc	kW		1.78		1.81		1.90
		EERd		11.12	12.27	10.61	10.78	9.80	
		Power input	kW	0.16	0.15	0.17	0.18	0.19	
Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C				-20		
		Pdh (declared heating cap)	kW	2.79	2.90	3.21	3.27	3.49	
		COPd (declared COP)		2.20	2.14	2.12	2.08		
		Power input	kW	1.27	1.36	1.51	1.57	1.68	
	TBivalent	Tbiv (bivalent temperature)	°C		-7		-7		-7
		Pdh (declared heating cap)	kW	3.72	3.71	3.80		3.98	
		COPd (declared COP)		2.64	2.81	2.83	2.88	2.91	
		Power input	kW	1.41	1.32	1.34	1.32	1.37	
	A Condition (-7°C)	Pdh (declared heating cap)	kW	3.72	3.71	3.80		3.98	
		COPd (declared COP)		2.64	2.81	2.83	2.88	2.91	
		Power input	kW	1.41	1.32	1.34	1.32	1.37	
		Pdh (declared heating cap)	kW	2.26		2.32		2.42	
	B Condition (2°C)	COPd (declared COP)		3.49	3.79	3.85	3.92	3.95	
		Power input	kW	0.65	0.60		0.59	0.61	
		Pdh (declared heating cap)	kW	1.52	1.56	1.55		1.59	
	C Condition (7°C)	COPd (declared COP)		5.39	5.59	5.26	5.36	5.09	
		Power input	kW	0.28		0.29		0.31	
		Pdh (declared heating cap)	kW	1.54	1.77	1.54		1.58	
	D Condition (12°C)	COPd (declared COP)		6.36	6.45	6.08	6.19	5.89	
		Power input	kW	0.24	0.270	0.25		0.27	
		Power consumption in other than active mode	Crankcase heater mode	Cooling PCK	kW			0.000	
	Heating PCK			kW			0.000		
	Off mode		Cooling POFF	kW			0.012		
	Power consumption in other than active mode	Off mode	Heating POFF	kW			0.012		
Cooling PSB			kW			0.012			
Standby mode		Heating PSB	kW			0.012			
		Cooling PTO	kW			0.004			
Thermo-stat-off mode	Heating PTO	kW			0.023				
	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			
Eurovent	Sound power level outdoor	Cooling	Nom.	dB	62		63		64
		Heating	Nom.	dB	51	56	60		
	Piping length	Cooling	Measuring condition	m			5.0		

Technical specifications					FBA35A9 + RZAG35A	FBA50A9 + RZAG35A	FBA50A9 + RZAG50A	FBA60A9 + RZAG50A	FBA60A9 + RZAG60A	FBA71A9 + RZAG60A
Indoor unit					-	FBA50A2VEB9		FBA60A2VEB9		FBA71A2VEB9
Outdoor unit					-	RZAG35A2V1B	RZAG50A2V1B		RZAG60A2V1B	
Cooling capacity	Min.		kW		1.6		1.7			
	Min.		Btu/h		5,500.0		5,800.0			
	Min.		kcal/h		1,376.0		1,462.0			
	Nom.		kW		3.5		5.0	6.0	6.00	
	Nom.		Btu/h		11,900.0		17,100.0	20,500.0	20,500	
	Nom.		kcal/h		3,009.0		4,299.0	5,159.0		
	Max.		kW		5.0		6.0		7.0	
	Max.		Btu/h		17,000.0	17,100.0	20,500.0		23,900.0	
	Max.		kcal/h		4,299.0		5,159.0		6,019.0	



# 2 Specifications

## 2 - 1 Specifications

Technical specifications				FBA35A9 + RZAG35A	FBA50A9 + RZAG35A	FBA50A9 + RZAG50A	FBA60A9 + RZAG50A	FBA60A9 + RZAG60A	FBA71A9 + RZAG60A	
Heating capacity	Min.		kW	1.40			1.70			
	Min.		Btu/h	4,780.0	4,800.0	5,800.0				
	Min.		kcal/h	1,200.0			1,460.0	1,500.0	1,460.0	1,500.0
	Nom.		kW	4.00			6.00		7.00	
	Nom.		Btu/h	13,700.0	13,600.0	20,500.0		23,900.0		
	Nom.		kcal/h	3,439.0			5,159.0		6,019.0	
	Max.		kW	5.00			6.00		7.50	
	Max.		Btu/h	17,000.0	17,100.0	20,500.0		25,590.0	25,600.0	
	Max.		kcal/h	4,299.0			5,159.0		6,449.0	
Power input	Cooling	Nom.	kW	0.78	0.76	1.25	1.22	1.48	1.39	
	Heating	Nom.	kW	0.91	0.90	1.58	1.51	2.06	1.81	
Nominal efficiency	EER			4.50	4.62	4.00	4.11	4.05	4.31	
	COP			4.40	4.44	3.80	3.97	3.80	3.87	
	Annual energy consumption		kWh	389	379	625	608	741	696	
	Energy labeling Directive	Cooling		A				C	A	
Space cooling	Energy efficiency class			A++						
	Capacity	Pdesign	kW	3.50			5.00		6.00	
	SEER			6.12	6.17	6.30	6.63	6.15	6.25	
	Annual energy consumption		kWh/a	200	199	278	264	341	336	
Space heating (Average climate)	Energy efficiency class			A+						
	Capacity	Pdesign	kW	4.20			4.30		4.50	
	SCOP/A			4.10	4.14	4.10	4.28	4.10	4.18	
	SCOPnet/A			4.14	4.18	4.13	4.32	4.13	4.21	
	Pdh Heating capacity at -10°		kW	3.49	3.51	3.65	3.75	3.85	3.86	
Space heating (Average climate)	Annual energy consumption		kWh/a	1,434	1,420	1,469	1,406	1,537	1,508	
	Required back up heating cap at design conditions		kW	0.71	0.69	0.65	0.55	0.65	0.64	
Space cooling	A Condition	Pdc	kW	3.50			5.00		6.00	
	(35°C - 27/19)	EERd		4.50	4.62	4.00	4.11	4.05	4.31	
		Power input	kW	0.78	0.76	1.25	1.22	1.48	1.39	
	B Condition	Pdc	kW	2.58			3.68		4.42	
	(30°C - 27/19)	EERd		6.10	6.38	5.55	5.86	5.20	5.22	
		Power input	kW	0.42	0.40	0.66	0.63	0.85		
	C Condition	Pdc	kW	1.99	1.87	2.37		2.85	2.84	
	(25°C - 27/19)	EERd		8.14	8.00	8.12	8.65	7.65	7.76	
		Power input	kW	0.24	0.23	0.29	0.27	0.37		
	D Condition	Pdc	kW	1.92	1.85	1.92	1.88	1.93	1.92	
	(20°C - 27/19)	EERd		9.76	9.52	9.70	10.29	9.25	9.41	
		Power input	kW	0.20	0.19	0.20	0.18	0.21	0.20	
	Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-20					
			Pdh (declared heating cap)	kW	2.74	2.84	3.15	3.59	3.42	3.48
			COPd (declared COP)		2.14	2.21	2.06	2.26	2.02	2.24
			Power input	kW	1.28	1.29	1.53	1.59	1.69	1.55
TBivalent		Tbiv (bivalent temperature)	°C	-7	-7.0	-7	-7.0	-7	-7.0	
		Pdh (declared heating cap)	kW	3.73	3.71	3.80		3.98		
		COPd (declared COP)		3.04	3.14	3.03	3.20	3.01	3.14	
		Power input	kW	1.23	1.18	1.25	1.19	1.32	1.27	
A Condition (-7°C)		Pdh (declared heating cap)	kW	3.73	3.71	3.80		3.98		
		COPd (declared COP)		3.04	3.11	3.03	3.20	3.01	3.14	
		Power input	kW	1.23	1.19	1.25	1.19	1.32	1.27	
B Condition (2°C)		Pdh (declared heating cap)	kW	2.29	2.26	2.31	2.32	2.42		
		COPd (declared COP)		3.98	4.01	3.98	4.14	3.97	4.04	
		Power input	kW	0.58	0.56	0.58	0.56	0.61	0.60	
C Condition (7°C)		Pdh (declared heating cap)	kW	1.56	1.45	1.56	1.49	1.57	1.56	
		COPd (declared COP)		5.10	5.12	5.09	5.32	5.13	5.17	
		Power input	kW	0.31	0.28	0.31	0.28	0.31	0.30	
D Condition (12°C)		Pdh (declared heating cap)	kW	1.84	1.85	1.84	1.87	1.85	1.87	
		COPd (declared COP)			6.26		6.53	6.29	6.31	
		Power input	kW	0.29	0.300		0.29		0.30	
Power consumption in other than active mode		Crankcase heater mode	Cooling	PCK	kW					
			Heating	PCK	kW					
		Off mode	Cooling	POFF	kW					
			Heating	POFF	kW					
Power consumption in other than active mode	Standby mode	Cooling	PSB	kW						
		Heating	PSB	kW						
	Thermo-stat-off mode	Cooling	PTO	kW						
		Heating	PTO	kW						
Cooling	Cdc (Degradation cooling)				0.25					

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Technical specifications					FBA35A9 + RZAG35A	FBA50A9 + RZAG35A	FBA50A9 + RZAG50A	FBA60A9 + RZAG50A	FBA60A9 + RZAG60A	FBA71A9 + RZAG60A
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
Eurovent	Sound power level outdoor	Cooling	Nom.	dBA	62		63		64	
					60		56			
	Sound power level indoor	Cooling	Nom.	dBA						
	Piping length	Cooling	Measuring condition	m						5.0

Technical specifications					FHA35A9 + RZAG35A	FHA50A9 + RZAG35A	FHA50A9 + RZAG50A	FHA60A9 + RZAG50A	FHA60A9 + RZAG60A	FHA71A9 + RZAG60A	
Cooling capacity	Min.	kW		1.70					1.90		
	Min.	Btu/h		5,800.0					6,500.0		
	Min.	kcal/h		1,462.0					1,634.0		
	Nom.	kW		3.50		5.00		6.00			
	Nom.	Btu/h		11,900.0		17,100.0		20,500.0			
	Nom.	kcal/h		3,009.0		4,299.0		5,159.0			
	Max.	kW		4.50		6.00		6.80			
	Max.	Btu/h		15,400.0		20,500.0		23,200.0			
	Max.	kcal/h		3,869.0		5,159.0		5,847.0			
Heating capacity	Min.	kW		1.40					1.70		
	Min.	Btu/h		4,780.0		4,800.0		5,800.0			
	Min.	kcal/h		1,200.0		1,460.0		1,500.0		1,460.0	
	Nom.	kW		4.00		5.80		6.00		7.00	
	Nom.	Btu/h		13,700.0		13,600.0		19,800.0		20,500.0	
	Nom.	kcal/h		3,439.0		4,987.0		5,159.0		6,019.0	
	Max.	kW		5.50		6.50		7.50			
	Max.	Btu/h		18,800.0		22,200.0		25,590.0		25,600.0	
	Max.	kcal/h		4,729.0		5,589.0		6,449.0			
Power input	Cooling	Nom.	kW		0.76	0.69	1.22	1.18	1.54	1.38	
	Heating	Nom.	kW		0.98	0.96	1.56	1.60	2.06	1.99	
Nominal efficiency	EER				4.60	5.05	4.10	4.24	3.90	4.35	
	COP				4.10	4.18	3.71	3.75	3.40	3.52	
	Annual energy consumption		kWh		380	347	610	590	769	690	
	Energy labeling Directive	Cooling			A						
	Heating			A					C	B	
Space cooling	Energy efficiency class				A++						
	Capacity	Pdesign	kW		3.50		5.00		6.00		
	SEER			6.40	6.65	6.80	7.02	6.60	6.81		
	Annual energy consumption	kWh/a		191	184	257	249	318	308		
Space heating (Average climate)	Energy efficiency class				A+						
	Capacity	Pdesign	kW		3.10		4.00		4.60		
	SCOP/A			4.10	4.18	4.30	4.44	4.20	4.35		
	SCOPnet/A			4.13	4.22	4.34	4.48	4.25	4.39		
	Pdh Heating capacity at -10°	kW		2.75	2.77	3.46	3.48	3.93	3.96		
	Annual energy consumption	kWh/a		1,058	1,038	1,302	1,261	1,633	1,480		
	Required back up heating cap at design conditions	kW		0.35	0.33	0.54	0.52	0.97	0.64		
	Space cooling	A Condition	Pdc	kW		3.50		5.00		6.00	
(35°C - 27/19)		EERd			4.60	5.05	4.10	4.24	3.90	4.35	
		Power input	kW		0.76	0.69	1.22	1.18	1.54	1.38	
B Condition		Pdc	kW		2.58		3.68		4.42		
(30°C - 27/19)		EERd			6.47	6.72	6.29	6.60	5.55	5.74	
		Power input	kW		0.41	0.38	0.59	0.56	0.80	0.77	
C Condition		Pdc	kW		2.46	2.21	2.46	2.54	2.85	2.84	
(25°C - 27/19)		EERd			8.52	8.81	8.52	8.83	8.27	8.49	
		Power input	kW		0.29	0.25	0.29		0.34	0.33	
D Condition		Pdc	kW		2.05	2.17	2.10	2.20	2.12	2.26	
(20°C - 27/19)		EERd			11.30	11.50	11.19	11.49	10.98	11.15	
		Power input	kW		0.18		0.19			0.20	

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Technical specifications					FHA35A9 + RZAG35A	FHA50A9 + RZAG35A	FHA50A9 + RZAG50A	FHA60A9 + RZAG50A	FHA60A9 + RZAG60A	FHA71A9 + RZAG60A	
Space heating (Average climate)	TOL	Tol (temperature operating limit)			-20						
		Pdh (declared heating cap)			2.79	2.87	3.20	3.30	3.48	3.59	
		COPd (declared COP)			2.12	2.05	2.09	1.98	2.00	2.02	
	Power input			1.32	1.40	1.53	1.67	1.74	1.78		
	TBivalent	Tbiv (bivalent temperature)			-7						
		Pdh (declared heating cap)			2.74		3.54		4.07		
		COPd (declared COP)			2.90	2.96	2.93	3.03	2.73	3.04	
	Power input			0.94	0.93	1.21	1.17	1.49	1.34		
	A Condition (-7°C)	Pdh (declared heating cap)			2.74		3.54		4.07		
		COPd (declared COP)			2.90	2.96	2.93	3.03	2.73	3.04	
		Power input			0.94	0.93	1.21	1.17	1.49	1.34	
	B Condition (2°C)	Pdh (declared heating cap)			1.76		1.74		2.15		2.48
		COPd (declared COP)			4.00	4.08	4.17	4.35	4.07	4.14	
		Power input			0.44	0.43	0.52	0.49	0.61	0.60	
	C Condition (7°C)	Pdh (declared heating cap)			1.63		1.65		1.64		1.66
		COPd (declared COP)			5.59	5.70	5.79	5.97	5.68	5.76	
		Power input			0.29		0.28		0.29		
	D Condition (12°C)	Pdh (declared heating cap)			1.77		1.80		1.78		1.81
COPd (declared COP)			6.86	7.03	7.18	7.02	7.06	7.09			
Power input			0.26	0.260	0.25	0.26	0.25	0.26			
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.000						
	Off mode	Cooling	POFF	kW	0.012						
		Heating	POFF	kW	0.012						
	Standby mode	Cooling	PSB	kW	0.012						
	Power consumption in other than active mode	Standby mode	Heating	PSB	kW	0.012					
Thermo-stat-off mode		Cooling	PTO	kW	0.004						
		Heating	PTO	kW	0.023						
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						
Eurovent	Sound power level outdoor	Cooling	Nom.	dBa	62		63		64		
		Cooling	Nom.	dBa	53	54		55			
	Piping length	Cooling	Measuring condition	m	5.0						

Technical specifications					FDXM35F9 + RZAG35A	FDXM50F9 + RZAG35A	FDXM50F9 + RZAG50A	FDXM60F9 + RZAG50A	FDXM60F9 + RZAG60A
Indoor unit					-	FDXM50F3V1B9		FDXM60F3V1B9	
Outdoor unit					-	RZAG35A2V1B	RZAG50A2V1B		RZAG60A2V1B
Cooling capacity	Min.	kW			1.6		1.7		
	Min.	Btu/h			5,500.0		5,800.0		
	Min.	kcal/h			1,376.0		1,462.0		
	Nom.	kW			3.5		5.0		6.0
	Nom.	Btu/h			11,900.0		17,100.0		20,500.0
	Nom.	kcal/h			3,009.0		4,299.0		5,159.0
	Max.	kW			4.5		6.0		6.5
	Max.	Btu/h			15,400.0		20,500.0		22,200.0
	Max.	kcal/h			3,869.0		5,159.0		5,589.0
	Heating capacity	Min.	kW			1.40		1.70	
Min.		Btu/h			4,780.0		4,800.0		5,800.0
Min.		kcal/h			1,200.0		1,460.0		1,500.0
Nom.		kW			4.00		5.00		7.00
Nom.		Btu/h			13,700.0		13,600.0		23,900.0
Nom.		kcal/h			3,439.0		4,299.0		6,019.0
Max.		kW			5.00		6.00		7.50
Max.		Btu/h			17,000.0		17,100.0		25,590.0
Max.		kcal/h			4,299.0		5,159.0		6,449.0

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Technical specifications				FDXM35F9 + RZAG35A	FDXM50F9 + RZAG35A	FDXM50F9 + RZAG50A	FDXM60F9 + RZAG50A	FDXM60F9 + RZAG60A	
Power input	Cooling	Nom.	kW	0.90	0.86	1.32	1.26	1.76	
	Heating	Nom.	kW	1.14	1.10	1.47	1.45	2.12	
Nominal efficiency	EER			3.90	4.05	3.80	3.98	3.40	
	COP			3.50	3.63	3.40	3.44	3.30	
	Annual energy consumption		kWh	449	432	658	628	882	
	Energy labeling Directive	Cooling				A			
	Heating		B	A	C	B	C		
Space cooling	Energy efficiency class			A+					
	Capacity	Pdesign	kW	3.50		5.00		6.00	
	SEER			5.90	6.08	5.90	5.98	5.70	
	Annual energy consumption		kWh/a	208	201	296	293	368	
Space heating (Average climate)	Energy efficiency class			A	A+	A			
	Capacity	Pdesign	kW	3.50	4.20	4.30		4.50	
	SCOP/A			3.90	4.05	3.90	3.94	3.90	
	SCOPnet/A			3.94	4.09	3.93	3.98	3.93	
	Pdh Heating capacity at -10°		kW	2.99	3.49	3.62	3.63	3.82	
Space heating (Average climate)	Annual energy consumption		kWh/a	1,255	1,451	1,544	1,526	1,616	
	Required back up heating cap at design conditions		kW	0.51	0.71	0.68	0.67	0.68	
Space cooling	A Condition (35°C - 27/19)	Pdc	kW	3.50		5.00			
		EERd		3.90	4.05	3.80	3.98	3.40	
	B Condition (30°C - 27/19)	Pdc	kW	2.58		3.68			
		EERd		5.52	5.78	5.11	5.20	4.68	
	C Condition (25°C - 27/19)	Pdc	kW	2.00	2.06	2.37		2.84	
		EERd		8.17	8.47	7.58	7.65	7.28	
	D Condition (20°C - 27/19)	Pdc	kW	2.02		2.09			
		EERd		9.76	10.09	9.11	9.15	8.85	
	Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-20				
			Pdh (declared heating cap)	kW	2.64	2.72	3.01	3.08	3.30
		TBivalent	COPd (declared COP)		2.05	1.99	1.98	1.96	1.94
			Pdh (declared heating cap)	kW	1.29	1.37	1.52	1.57	1.70
			Tbiv (bivalent temperature)	°C	-7	-7.0	-7	-7.0	-7
		A Condition (-7°C)	Pdh (declared heating cap)	kW	3.10	3.72	3.80		3.98
			COPd (declared COP)		2.51	2.58	2.32	2.34	2.31
			Power input	kW	1.24	1.44	1.66	1.62	1.72
B Condition (2°C)		Pdh (declared heating cap)	kW	1.89	2.26	2.32		2.42	
		COPd (declared COP)		3.76	3.86	3.99	4.04	4.01	
		Power input	kW	0.50	0.59	0.58	0.57	0.60	
C Condition (7°C)		Pdh (declared heating cap)	kW	1.45	1.51	1.61			
		COPd (declared COP)		5.53	5.69	4.95	5.02	4.90	
		Power input	kW	0.26	0.27	0.33	0.32	0.33	
D Condition (12°C)		Pdh (declared heating cap)	kW	1.54	1.60	1.59	1.80	1.59	
		COPd (declared COP)		6.76	6.96	6.59	6.68	6.52	
	Power input	kW	0.23	0.230	0.24	0.27	0.24		
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000				
		Heating	PCK	kW	0.000				
	Off mode	Cooling	POFF	kW	0.012				
Power consumption in other than active mode	Off mode	Heating	POFF	kW	0.012				
		Standby mode	Cooling	PSB	kW	0.012			
	Thermo-stat-off mode	Heating	PSB	kW	0.012				
		Cooling	PTO	kW	0.004				
	Heating	PTO	kW	0.023					
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					

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Technical specifications					FDXM35F9 + RZAG35A	FDXM50F9 + RZAG35A	FDXM50F9 + RZAG50A	FDXM60F9 + RZAG50A	FDXM60F9 + RZAG60A
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	62		63		64
		Cooling	Nom.	dB(A)	53	55		56	
	Piping length	Cooling	Measuring condition	m	5.0				

Technical specifications					FNA35A9 + RZAG35A	FNA50A9 + RZAG35A	FNA50A9 + RZAG50A	FNA60A9 + RZAG50A	FNA60A9 + RZAG60A		
Indoor unit					-		FNA50A2VEB9		FNA60A2VEB9		
Outdoor unit					-		RZAG35A2V1B		RZAG50A2V1B	RZAG60A2V1B	
Cooling capacity	Min.			kW	1.6		1.7				
				Btu/h	5,500.0		5,800.0				
	Min.			kcal/h	1,376.0		1,462.0				
				kW	3.5		5.0		6.0		
	Nom.			Btu/h	11,900.0		17,100.0		20,500.0		
				kcal/h	3,009.0		4,299.0		5,159.0		
	Max.			kW	4.5		6.0		6.5		
				Btu/h	15,400.0		20,500.0		22,200.0		
	Max.			kcal/h	3,869.0		5,159.0		5,589.0		
Heating capacity	Min.			kW	1.40		1.70				
				Btu/h	4,780.0		4,800.0		5,800.0		
	Min.			kcal/h	1,200.0		1,460.0		1,460.0		
				kW	4.00		5.00		7.00		
	Nom.			Btu/h	13,700.0		13,600.0		23,900.0		
				kcal/h	3,439.0		4,299.0		6,019.0		
	Max.			kW	5.00		6.00		7.50		
				Btu/h	17,000.0		17,100.0		20,500.0	25,590.0	
	Max.			kcal/h	4,299.0		5,159.0		6,449.0		
Power input	Cooling	Nom.		kW	0.90	0.86	1.32	1.26	1.76		
				Heating	Nom.	kW	1.14	1.10	1.47	1.45	2.12
Nominal efficiency	EER				3.90	4.05	3.80	3.98	3.40		
				COP		3.50	3.63	3.40	3.44	3.30	
	Annual energy consumption				kWh	449	432	658	628	882	
	Energy labeling Directive	Cooling	Heating			A		A		A	
						B	A	C	B	C	
Space cooling	Energy efficiency class				A+						
	Capacity	Pdesign		kW	3.50		5.00		6.00		
	SEER				5.90	6.08	5.90	5.98	5.70		
	Annual energy consumption				kWh/a	208	201	297	293	368	
Space heating (Average climate)	Energy efficiency class				A						
	Capacity	Pdesign		kW	3.50	4.20	4.30		4.50		
	SCOP/A				3.90	4.05	3.90	3.94	3.90		
	SCOPnet/A				3.94	4.09	3.94	3.97	3.93		
	Pdh Heating capacity at -10°			kW	2.99	3.49	3.62	3.63	3.82		
Space heating (Average climate)	Annual energy consumption				kWh/a	1,255	1,452	1,542	1,528	1,616	
	Required back up heating cap at design conditions				kW	0.51	0.71	0.68	0.67	0.68	
Space cooling	A Condition (35°C - 27/19)	Pdc				3.50		5.00		6.00	
						EERd	3.90	4.05	3.80	3.98	3.40
	B Condition (30°C - 27/19)	Pdc					2.58		3.68		4.42
							Power input	kW	0.90	0.86	1.32
	C Condition (25°C - 27/19)	Pdc					2.00		2.37		2.84
							EERd	8.17	8.46	7.57	7.65
	D Condition (20°C - 27/19)	Pdc					0.24		0.31		0.39
							Power input	kW	2.02		
	EERd						9.76		10.07		9.09
							Power input	kW			
						0.21		0.23		0.24	

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Technical specifications				FNA35A9 + RZAG35A	FNA50A9 + RZAG35A	FNA50A9 + RZAG50A	FNA60A9 + RZAG50A	FNA60A9 + RZAG60A	
Space heating (Average climate)	TOL	Tol (temperature operating limit)		°C	-20				
		Pdh (declared heating cap)		kW	2.64	2.73	3.01	3.08	3.30
		COPd (declared COP)			2.05	1.98		1.96	1.94
	Power input		kW	1.29	1.38	1.52	1.57	1.70	
	TBivalent	Tbiv (bivalent temperature)		°C	-7	-7.0	-7	-7.0	-7
		Pdh (declared heating cap)		kW	3.10	3.72	3.80		3.98
		COPd (declared COP)			2.51	2.59	2.32	2.34	2.31
	Power input		kW	1.24	1.44	1.66	1.62	1.72	
	A Condition (-7°C)	Pdh (declared heating cap)		kW	3.10	3.72	3.80		3.98
		COPd (declared COP)			2.51	2.59	2.32	2.34	2.31
		Power input		kW	1.24	1.44	1.64	1.62	1.72
	B Condition (2°C)	Pdh (declared heating cap)		kW	1.89	2.26	2.32		2.42
		COPd (declared COP)			3.76	3.85	4.02	4.03	4.01
		Power input		kW	0.50	0.59	0.58		0.60
	C Condition (7°C)	Pdh (declared heating cap)		kW	1.45	1.51	1.61		
COPd (declared COP)			5.53	5.69	4.90	5.02	4.90		
Power input		kW	0.26	0.27	0.33	0.32	0.33		
D Condition (12°C)	Pdh (declared heating cap)		kW	1.54	1.60	1.59	1.80	1.59	
	COPd (declared COP)			6.76	6.97	6.53	6.70	6.52	
	Power input		kW	0.23	0.230	0.24	0.27	0.24	
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000				
		Heating	PCK	kW	0.000				
	Off mode	Cooling	POFF	kW	0.012				
Power consumption in other than active mode	Off mode	Heating	POFF	kW	0.012				
		Standby mode	Cooling	PSB	kW	0.012			
	Thermo-stat-off mode	Heating	PSB	kW	0.012				
		Cooling	PTO	kW	0.004				
Cooling	CdC (Degradation cooling)				0.25				
					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				
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	62		63	64	
		Cooling	Nom.	dB(A)	53	56			
	Piping length	Cooling	Measuring condition	m	5.0				

Technical specifications				FTXM35R + RZAG35A	FTXM50R + RZAG35A	FTXM50R + RZAG50A	FTXM60R + RZAG50A	FTXM60R + RZAG60A	FTXM71R + RZAG60A
Cooling capacity	Min.			kW	1.6	1.60	1.7	1.70	1.70
	Min.			Btu/h	5,500.0	5,500	5,800.0	5,800	5,800
	Min.			kcal/h	1,376.0	1,376	1,462.0	1,462	1,462
	Nom.			kW	3.5	3.50	5.0	5.00	6.00
	Nom.			Btu/h	11,900.0	11,900	17,100.0	17,100	20,500
	Nom.			kcal/h	3,009.0	3,009	4,299.0	4,299	5,159.0
	Max.			kW	5.0	5.00	6.0	6.00	6.80
	Max.			Btu/h	17,000.0	17,100	20,500.0	20,500	23,200
Heating capacity	Min.			kW	1.40		1.50		1.60
	Min.			Btu/h	4,780.0	4,800	5,100.0	5,100	5,500.0
	Min.			kcal/h	1,200.0	1,200	1,290.0	1,300	1,380.0
	Nom.			kW	4.00		6.00		7.00
	Nom.			Btu/h	13,700.0	13,600	20,500.0	20,500	23,900.0
	Nom.			kcal/h	3,439.0	3,439	5,159.0	5,159	6,019.0
	Max.			kW	5.30		6.50		7.50
	Max.			Btu/h	18,000.0	18,100	22,200.0	22,200	25,590.0
Power input	Cooling	Nom.		kW	0.81		1.25	1.24	1.71
	Heating	Nom.		kW	1.04	1.02	1.50	1.47	1.94

## 2 Specifications

### 2 - 1 Specifications

Technical specifications				FTXM35R + RZAG35A	FTXM50R + RZAG35A	FTXM50R + RZAG50A	FTXM60R + RZAG50A	FTXM60R + RZAG60A	FTXM71R + RZAG60A		
Nominal efficiency	EER			4.30	4.32	4.00	4.04	3.50			
	COP			3.85	3.93	4.00	4.08	3.61	3.68		
	Annual energy consumption	kWh		407	405	625	619	857			
	Energy labeling	Cooling		A							
	Heating		A								
	Directive		A								
Space cooling	Energy efficiency class			A++							
	Capacity	Pdesign	kW	3.50			5.00		6.00		
	SEER			7.70	7.76	7.41	7.53	6.90			
	Annual energy consumption	kWh/a		159	158	236	232	304			
Space heating (Average climate)	Energy efficiency class			A++				A+			
	Capacity	Pdesign	kW	2.60		4.50		4.60	4.50		
	SCOP/A			4.60	4.68	4.60	4.69	4.35	4.40		
	SCOPnet/A			4.63	4.70	4.64	4.73	4.38	4.43		
	Pdh Heating capacity at -10°	kW		2.47		3.89		4.02	3.95		
	Annual energy consumption	kWh/a		790	778	1,369	1,344	1,480	1,433		
	Required back up heating cap at design conditions	kW		0.13		0.61		0.58	0.55		
Space cooling	A Condition	Pdc	kW	3.50		5.00		6.00			
	(35°C - 27/19)	EERd		4.30	4.32	4.00	4.04	3.50			
		Power input	kW	0.81		1.25	1.24	1.71			
	B Condition	Pdc	kW	2.58		3.68		4.42			
	(30°C - 27/19)	EERd		6.09	6.15	5.38	5.49	4.82			
		Power input	kW	0.42		0.68	0.67	0.92			
	C Condition	Pdc	kW	1.80		2.37		2.84			
	(25°C - 27/19)	EERd		9.34	9.43	8.82	8.99	8.15			
		Power input	kW	0.19		0.27	0.26	0.35			
	D Condition	Pdc	kW	1.91		2.08		2.10			
	(20°C - 27/19)	EERd		12.34	12.41	13.03	13.16	12.96			
		Power input	kW	0.15		0.16					
	Space heating (Average climate)	TOL	Tol (temperature operating limit)	°C	-20						
			Pdh (declared heating cap)	kW	3.03			3.61		3.85	
			COPd (declared COP)		2.35	2.37	2.29	2.31	2.22	2.24	
			Power input	kW	1.29	1.28	1.58	1.56	1.73	1.72	
Tbivalent		Tbiv (bivalent temperature)	°C	-7							
		Pdh (declared heating cap)	kW	2.31		2.30		3.98		4.07	
		COPd (declared COP)		3.00	3.06	3.00	3.06	2.74	2.77		
		Power input	kW	0.77	0.75	1.33	1.30	1.49	1.47		
A Condition		Pdh (declared heating cap)	kW	2.31		2.30		3.98		4.07	
(-7°C)		COPd (declared COP)		3.00	3.06	3.00	3.06	2.74	2.77		
		Power input	kW	0.77	0.75	1.33	1.30	1.49	1.47		
B Condition		Pdh (declared heating cap)	kW	1.35		1.40		2.44		2.42	
(2°C)		COPd (declared COP)		4.67	4.76	4.49	4.58	4.27	4.31		
		Power input	kW	0.29		0.54	0.53	0.58			
C Condition		Pdh (declared heating cap)	kW	1.31		1.42		1.56		1.59	
(7°C)		COPd (declared COP)		6.13	6.25	6.00	6.12	5.71	5.77		
		Power input	kW	0.21	0.23	0.26	0.25	0.28			
D Condition		Pdh (declared heating cap)	kW	1.54		1.66		1.67			
(12°C)		COPd (declared COP)		7.43	7.58	7.76	7.84	7.50	7.58		
		Power input	kW	0.21		0.22		0.21	0.22		
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000						
		Heating	PCK	kW	0.000						
	Off mode	Cooling	POFF	kW	0.001						
		Heating	POFF	kW	0.001						
	Standby mode	Cooling	PSB	kW	0.001						
Power consumption in other than active mode	Standby mode	Heating	PSB	kW	0.001						
	Thermo-stat-off mode	Cooling	PTO	kW	0.012						
		Heating	PTO	kW	0.013						
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 - 1 Specifications

**2**

Technical specifications					FTXM35R + RZAG35A	FTXM50R + RZAG35A	FTXM50R + RZAG50A	FTXM60R + RZAG50A	FTXM60R + RZAG60A	FTXM71R + RZAG60A
Eurovent	Sound power level outdoor	Cooling	Nom.	dB(A)	62		63		64	
	Sound power level indoor	Cooling	Nom.	dB(A)	58			60		62
	Piping length	Cooling	Measuring condition	m	5.0	5.00	5.0	5.00	5.0	5.00



### 3 Electrical data

#### 3 - 1 Electrical Data

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
RZAG35A2V1B	FDXM35F3V1B9	50	220	Maximum ·50·Hz ·264·V	14,53	16	41	4,9	0,058	0,38	0,034	0,30
		50	230					4,7				
		50	240	Minimum ·50·Hz ·198·V				4,5				
RZAG35A2V1B	FFA35A2VEB9	50	220	Maximum ·50·Hz ·264·V	14,43	16	38	4,6	0,058	0,38	0,050	0,20
		50	230					4,4				
		50	240	Minimum ·50·Hz ·198·V				4,2				
RZAG35A2V1B	FBA35A2VEB9	50	220	Maximum ·50·Hz ·264·V	15,63	16	33	3,4	0,058	0,38	0,089	1,40
		50	230					3,3				
		50	240	Minimum ·50·Hz ·198·V				3,2				
RZAG35A2V1B	FCAG35BVEB	50	220	Maximum ·50·Hz ·264·V	14,53	16	37	4,3	0,058	0,38	0,048	0,30
		50	230					4,1				
		50	240	Minimum ·50·Hz ·198·V				3,9				
RZAG35A2V1B	FNA35A2VEB9	50	220	Maximum ·50·Hz ·264·V	14,73	16	41	4,9	0,058	0,38	0,034	0,50
		50	230					4,7				
		50	240	Minimum ·50·Hz ·198·V				4,5				
RZAG35A2V1B	FTXM35N2V1B	50	220	Maximum ·50·Hz ·264·V	14,48	16	40	5,1	0,058	0,38	0,028	0,25
		50	230					4,9				
		50	240	Minimum ·50·Hz ·198·V				4,7				
RZAG35A2V1B	FHA35AVEB98	50	220	Maximum ·50·Hz ·264·V	14,83	16	36	3,8	0,058	0,38	0,090	0,60
		50	230					3,6				
		50	240	Minimum ·50·Hz ·198·V				3,5				
RZAG35A2V1B	FDXM50F3V1B9	50	220	Maximum ·50·Hz ·264·V	15,23	16	41	4,8	0,058	0,38	0,060	0,90
		50	230					4,6				
		50	240	Minimum ·50·Hz ·198·V				4,4				
RZAG35A2V1B	FFA50A2VEB9	50	220	Maximum ·50·Hz ·264·V	14,63	16	38	4,6	0,058	0,38	0,050	0,40
		50	230					4,4				
		50	240	Minimum ·50·Hz ·198·V				4,2				
RZAG35A2V1B	FBA50A2VEB9	50	220	Maximum ·50·Hz ·264·V	15,63	16	33	3,4	0,058	0,38	0,089	1,40
		50	230					3,3				
		50	240	Minimum ·50·Hz ·198·V				3,2				
RZAG35A2V1B	FCAG50BVEB	50	220	Maximum ·50·Hz ·264·V	14,53	16	37	4,3	0,058	0,38	0,048	0,30
		50	230					4,1				
		50	240	Minimum ·50·Hz ·198·V				3,9				
RZAG35A2V1B	FNA50A2VEB9	50	220	Maximum ·50·Hz ·264·V	14,73	16	41	4,8	0,058	0,38	0,060	0,50
		50	230					4,6				
		50	240	Minimum ·50·Hz ·198·V				4,4				
RZAG35A2V1B	FTXM50N2V1B	50	220	Maximum ·50·Hz ·264·V	14,83	16	40	5,0	0,058	0,38	0,046	0,60
		50	230					4,8				
		50	240	Minimum ·50·Hz ·198·V				4,6				
RZAG35A2V1B	FHA50AVEB98	50	220	Maximum ·50·Hz ·264·V	14,83	16	36	3,8	0,058	0,38	0,090	0,60
		50	230					3,6				
		50	240	Minimum ·50·Hz ·198·V				3,5				
RZAG35A2V1B	FTXM35R2V1B	50	220	Maximum ·50·Hz ·264·V	14,53	16	40	5,1	0,058	0,38	0,030	0,30
		50	230					4,9				
		50	240	Minimum ·50·Hz ·198·V				4,7				
RZAG35A2V1B	FTXM35R5V1B	50	220	Maximum ·50·Hz ·264·V	14,53	16	40	5,1	0,058	0,38	0,030	0,30
		50	230					4,9				
		50	240	Minimum ·50·Hz ·198·V				4,7				
RZAG35A2V1B	FTXM50R2V1B	50	220	Maximum ·50·Hz ·264·V	14,83	16	40	5,0	0,058	0,38	0,046	0,60
		50	230					4,8				
		50	240	Minimum ·50·Hz ·198·V				4,6				

Symbols

- MCA: Minimum Circuit Ampere [A]
- MFA: Maximum Fuse Ampere [A]
- RLA: Rated load amps [A]
- OFM: Outdoor fan motor
- IFM: Indoor fan motor
- FLA: Full load amps [A]
- kW: Fan motor rated output [kW]
- RHz: Rated operating frequency [Hz]

Notes

- 1) The ·RLA· is based on the following conditions.  
Outdoor temperature ·35·°C DB  
Indoor temperature ·27·°C DB / ·19·°C WB
- 2) Select the wire size according to the MCA.
- 3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 4) Use a circuit breaker instead of a fuse.

3D118439E

## 3 Electrical data

### 3 - 1 Electrical Data

#### RZAG50A

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
RZAG50A2V1B	FDXM50F3V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,23	16	57	5,4	0,058	0,38	0,060	0,9
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FFA50A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,63	16	62	5,5	0,058	0,38	0,050	0,4
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FBA50A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,63	16	53	6,8	0,058	0,38	0,089	1,4
		50	230					6,5				
		50	240					6,2				
RZAG50A2V1B	FCAG50BVEB	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,53	16	56	7,3	0,058	0,38	0,048	0,3
		50	230					7,0				
		50	240					6,7				
RZAG50A2V1B	FNA50A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,73	16	57	5,4	0,058	0,38	0,060	0,5
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FTXM50N2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	54	6,5	0,058	0,38	0,046	0,6
		50	230					6,2				
		50	240					5,9				
RZAG50A2V1B	FHA50AVEB98	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	52	5,0	0,058	0,38	0,090	0,6
		50	230					4,8				
		50	240					4,6				
RZAG50A2V1B	FDXM60F3V1B9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,23	16	57	5,4	0,058	0,38	0,060	0,9
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FFA60A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	62	5,5	0,058	0,38	0,050	0,6
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FBA60A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	15,53	16	53	6,9	0,058	0,38	0,070	1,3
		50	230					6,6				
		50	240					6,3				
RZAG50A2V1B	FCAG60BVEB	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,53	16	56	7,3	0,058	0,38	0,048	0,3
		50	230					7,0				
		50	240					6,7				
RZAG50A2V1B	FNA60A2VEB9	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	57	5,4	0,058	0,38	0,060	0,6
		50	230					5,2				
		50	240					5,0				
RZAG50A2V1B	FTXM60N2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	54	6,5	0,058	0,38	0,046	0,6
		50	230					6,2				
		50	240					5,9				
RZAG50A2V1B	FHA60AVEB98	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	52	5,0	0,058	0,38	0,091	0,6
		50	230					4,8				
		50	240					4,6				
RZAG50A2V1B	FTXM50R2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	54	6,5	0,058	0,38	0,046	0,6
		50	230					6,2				
		50	240					5,9				
RZAG50A2V1B	FTXM60R2V1B	50	220	MAX. 50Hz 264V MIN. 50Hz 198V	14,83	16	54	6,5	0,058	0,38	0,046	0,6
		50	230					6,2				
		50	240					5,9				

#### Notes

- 1) The ·RLA· is based on the following conditions. Outdoor temperature ·35·°C DB  
Indoor temperature ·27·°C DB / ·19·°C WB
- 2) Select the wire size according to the MCA.
- 3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 4) Use a circuit breaker instead of a fuse.

#### Symbols

- MCA: Minimum Circuit Ampere [A]  
 MFA: Maximum Fuse Ampere [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]  
 RHz: Rated operating frequency [Hz]

**3D118440D**

### 3 Electrical data

#### 3 - 1 Electrical Data

**RZAG60A**

Unit combination restrictions		Power supply					COMP		OFM		IFM	
Outdoor unit	Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	RHz	RLA	kW	FLA	kW	FLA
RZAG60A2V1B	FDXM60F3V1B9	50	220	Maximum ·50·Hz ·264·V	17,10	20	70	7,3	0,058	0,38	0,060	0,9
		50	230					6,9				
		50	240	Minimum ·50·Hz ·198·V				6,7				
RZAG60A2V1B	FFA60A2VEB9	50	220	Maximum ·50·Hz ·264·V	16,70	20	70	9,0	0,058	0,38	0,050	0,6
		50	230					8,6				
		50	240	Minimum ·50·Hz ·198·V				8,2				
RZAG60A2V1B	FBA60A2VEB9	50	220	Maximum ·50·Hz ·264·V	17,40	20	65	7,0	0,058	0,38	0,070	1,3
		50	230					6,7				
		50	240	Minimum ·50·Hz ·198·V				6,4				
RZAG60A2V1B	FCAG60BVEB	50	220	Maximum ·50·Hz ·264·V	16,40	20	72	7,5	0,058	0,38	0,048	0,3
		50	230					7,2				
		50	240	Minimum ·50·Hz ·198·V				6,9				
RZAG60A2V1B	FNA60A2VEB9	50	220	Maximum ·50·Hz ·264·V	16,70	20	70	9,0	0,058	0,38	0,060	0,6
		50	230					8,6				
		50	240	Minimum ·50·Hz ·198·V				8,3				
RZAG60A2V1B	FTXM60N2V1B	50	220	Maximum ·50·Hz ·264·V	16,70	20	71	8,4	0,058	0,38	0,046	0,6
		50	230					8,1				
		50	240	Minimum ·50·Hz ·198·V				7,7				
RZAG60A2V1B	FHA60AVEB98	50	220	Maximum ·50·Hz ·264·V	16,70	20	67	8,1	0,058	0,38	0,091	0,6
		50	230					7,7				
		50	240	Minimum ·50·Hz ·198·V				7,4				
RZAG60A2V1B	FBA71A2VEB9	50	220	Maximum ·50·Hz ·264·V	17,40	20	65	8,9	0,058	0,38	0,070	1,3
		50	230					8,5				
		50	240	Minimum ·50·Hz ·198·V				8,1				
RZAG60A2V1B	FCAG71BVEB	50	220	Maximum ·50·Hz ·264·V	16,40	20	72	7,5	0,058	0,38	0,054	0,3
		50	230					7,2				
		50	240	Minimum ·50·Hz ·198·V				6,9				
RZAG60A2V1B	FTXM71N2V1B	50	220	Maximum ·50·Hz ·264·V	16,70	20	71	8,4	0,058	0,38	0,052	0,6
		50	230					8,0				
		50	240	Minimum ·50·Hz ·198·V				7,7				
RZAG60A2V1B	FHA71AVEB98	50	220	Maximum ·50·Hz ·264·V	16,90	20	67	8,1	0,058	0,38	0,110	0,8
		50	230					7,7				
		50	240	Minimum ·50·Hz ·198·V				7,4				
RZAG60A2V1B	FTXM60R2V1B	50	220	Maximum ·50·Hz ·264·V	16,70	20	71	8,4	0,058	0,38	0,046	0,6
		50	230					8,1				
		50	240	Minimum ·50·Hz ·198·V				7,7				
RZAG60A2V1B	FTXM71R2V1B	50	220	Maximum ·50·Hz ·264·V	16,70	20	71	8,4	0,058	0,38	0,052	0,6
		50	230					8,0				
		50	240	Minimum ·50·Hz ·198·V				7,7				

**Notes**

- 1) The ·RLA· is based on the following conditions.  
Outdoor temperature ·35·°C DB  
Indoor temperature ·27·°C DB / ·19·°C WB
- 2) Select the wire size according to the MCA.
- 3) The maximum allowable voltage that is unbalanced between phases is ·2·%.
- 4) Use a circuit breaker instead of a fuse.

**Symbols**

- MCA: Minimum Circuit Ampere [A]  
 MFA: Maximum Fuse Ampere [A]  
 RLA: Rated load amps [A]  
 OFM: Outdoor fan motor  
 IFM: Indoor fan motor  
 FLA: Full load amps [A]  
 kW: Fan motor rated output [kW]  
 RHz: Rated operating frequency [Hz]

**3D11441D**

# 4 Options

## 4 - 1 Options

RZAG35A  
RZAG60A

4

Option kit	Description	Product name	
		RZAG35A2V1B	RZAG60A2V1B
ASYCPIR	Asymmetric combinations piping reducer	✓	✓

**4D121273**



# 5 Capacity tables

## 5 - 1 Cooling Capacity Tables

5

**FCAG71B / RZAG60A**

**Cooling**

Indoor			Outdoor temperature [°C DB]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			-20				-15				-10				-5				0				5				10				15				20				25				30																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
41.8	11	18	3.40	3.40	0.44	3.40	3.40	0.48	3.40	3.40	0.53	3.40	3.40	0.59	3.40	3.40	0.67	3.40	3.40	0.75	3.40	3.40	0.95	3.40	3.40	1.09	3.40	3.40	1.20	3.40	3.40	1.32	3.40	3.40	1.47	3.40	3.40	1.63	3.40	3.40	1.81	3.40	3.40	2.01	3.40	3.40	2.22	3.40	3.40	2.45	3.40	3.40	2.71	3.40	3.40	2.99	3.40	3.40	3.29	3.40	3.40	3.61	3.40	3.40	3.95	3.40	3.40	4.31	3.40	3.40	4.69	3.40	3.40	5.09	3.40	3.40	5.51	3.40	3.40	5.95	3.40	3.40	6.41	3.40	3.40	6.89	3.40	3.40	7.39	3.40	3.40	7.91	3.40	3.40	8.45	3.40	3.40	9.01	3.40	3.40	9.59	3.40	3.40	10.19	3.40	3.40	10.81	3.40	3.40	11.45	3.40	3.40	12.11	3.40	3.40	12.79	3.40	3.40	13.49	3.40	3.40	14.21	3.40	3.40	14.95	3.40	3.40	15.71	3.40	3.40	16.49	3.40	3.40	17.29	3.40	3.40	18.11	3.40	3.40	18.95	3.40	3.40	19.81	3.40	3.40	20.69	3.40	3.40	21.59	3.40	3.40	22.51	3.40	3.40	23.45	3.40	3.40	24.41	3.40	3.40	25.39	3.40	3.40	26.39	3.40	3.40	27.41	3.40	3.40	28.45	3.40	3.40	29.51	3.40	3.40	30.59	3.40	3.40	31.69	3.40	3.40	32.81	3.40	3.40	33.95	3.40	3.40	35.11	3.40	3.40	36.29	3.40	3.40	37.49	3.40	3.40	38.71	3.40	3.40	39.95	3.40	3.40	41.21	3.40	3.40	42.49	3.40	3.40	43.79	3.40	3.40	45.11	3.40	3.40	46.45	3.40	3.40	47.75	3.40	3.40	49.09	3.40	3.40	50.45	3.40	3.40	51.81	3.40	3.40	53.19	3.40	3.40	54.59	3.40	3.40	56.01	3.40	3.40	57.45	3.40	3.40	58.91	3.40	3.40	60.39	3.40	3.40	61.89	3.40	3.40	63.41	3.40	3.40	64.95	3.40	3.40	66.51	3.40	3.40	68.09	3.40	3.40	69.69	3.40	3.40	71.31	3.40	3.40	72.95	3.40	3.40	74.61	3.40	3.40	76.29	3.40	3.40	77.99	3.40	3.40	79.71	3.40	3.40	81.45	3.40	3.40	83.21	3.40	3.40	84.99	3.40	3.40	86.79	3.40	3.40	88.61	3.40	3.40	90.45	3.40	3.40	92.29	3.40	3.40	94.15	3.40	3.40	96.01	3.40	3.40	97.89	3.40	3.40	99.79	3.40	3.40	101.71	3.40	3.40	103.65	3.40	3.40	105.61	3.40	3.40	107.59	3.40	3.40	109.59	3.40	3.40	111.61	3.40	3.40	113.65	3.40	3.40	115.71	3.40	3.40	117.79	3.40	3.40	119.89	3.40	3.40	122.01	3.40	3.40	124.15	3.40	3.40	126.31	3.40	3.40	128.49	3.40	3.40	130.69	3.40	3.40	132.91	3.40	3.40	135.15	3.40	3.40	137.41	3.40	3.40	139.69	3.40	3.40	141.99	3.40	3.40	144.39	3.40	3.40	146.81	3.40	3.40	149.25	3.40	3.40	151.71	3.40	3.40	154.19	3.40	3.40	156.69	3.40	3.40	159.21	3.40	3.40	161.75	3.40	3.40	164.31	3.40	3.40	166.89	3.40	3.40	169.49	3.40	3.40	172.11	3.40	3.40	174.75	3.40	3.40	177.41	3.40	3.40	180.09	3.40	3.40	182.79	3.40	3.40	185.51	3.40	3.40	188.25	3.40	3.40	191.01	3.40	3.40	193.79	3.40	3.40	196.59	3.40	3.40	199.41	3.40	3.40	202.25	3.40	3.40	205.11	3.40	3.40	208.01	3.40	3.40	210.91	3.40	3.40	213.85	3.40	3.40	216.81	3.40	3.40	219.79	3.40	3.40	222.79	3.40	3.40	225.81	3.40	3.40	228.85	3.40	3.40	231.91	3.40	3.40	234.99	3.40	3.40	238.09	3.40	3.40	241.21	3.40	3.40	244.35	3.40	3.40	247.51	3.40	3.40	250.69	3.40	3.40	253.89	3.40	3.40	257.11	3.40	3.40	260.35	3.40	3.40	263.61	3.40	3.40	266.89	3.40	3.40	270.19	3.40	3.40	273.51	3.40	3.40	276.85	3.40	3.40	280.21	3.40	3.40	283.59	3.40	3.40	286.99	3.40	3.40	290.41	3.40	3.40	293.85	3.40	3.40	297.31	3.40	3.40	300.79	3.40	3.40	304.21	3.40	3.40	307.65	3.40	3.40	311.09	3.40	3.40	314.55	3.40	3.40	318.01	3.40	3.40	321.49	3.40	3.40	324.95	3.40	3.40	328.41	3.40	3.40	331.85	3.40	3.40	335.29	3.40	3.40	338.75	3.40	3.40	342.21	3.40	3.40	345.65	3.40	3.40	349.11	3.40	3.40	352.55	3.40	3.40	356.01	3.40	3.40	359.45	3.40	3.40	362.91	3.40	3.40	366.35	3.40	3.40	369.81	3.40	3.40	373.25	3.40	3.40	376.69	3.40	3.40	380.15	3.40	3.40	383.61	3.40	3.40	387.05	3.40	3.40	390.51	3.40	3.40	393.95	3.40	3.40	397.41	3.40	3.40	400.85	3.40	3.40	404.31	3.40	3.40	407.75	3.40	3.40	411.19	3.40	3.40	414.65	3.40	3.40	418.11	3.40	3.40	421.55	3.40	3.40	425.01	3.40	3.40	428.45	3.40	3.40	431.91	3.40	3.40	435.35	3.40	3.40	438.81	3.40	3.40	442.25	3.40	3.40	445.75	3.40	3.40	449.21	3.40	3.40	452.65	3.40	3.40	456.11	3.40	3.40	459.55	3.40	3.40	463.01	3.40	3.40	466.45	3.40	3.40	469.91	3.40	3.40	473.35	3.40	3.40	476.79	3.40	3.40	480.25	3.40	3.40	483.69	3.40	3.40	487.11	3.40	3.40	490.55	3.40	3.40	493.99	3.40	3.40	497.45	3.40	3.40	500.91	3.40	3.40	504.35	3.40	3.40	507.79	3.40	3.40	511.25	3.40	3.40	514.69	3.40	3.40	518.11	3.40	3.40	521.55	3.40	3.40	524.95	3.40	3.40	528.35	3.40	3.40	531.75	3.40	3.40	535.15	3.40	3.40	538.55	3.40	3.40	541.95	3.40	3.40	545.35	3.40	3.40	548.75	3.40	3.40	552.15	3.40	3.40	555.55	3.40	3.40	558.95	3.40	3.40	562.35	3.40	3.40	565.75	3.40	3.40	569.15	3.40	3.40	572.55	3.40	3.40	575.95	3.40	3.40	579.35	3.40	3.40	582.75	3.40	3.40	586.15	3.40	3.40	589.55	3.40	3.40	592.95	3.40	3.40	596.35	3.40	3.40	599.75	3.40	3.40	603.15	3.40	3.40	606.55	3.40	3.40	609.95	3.40	3.40	613.35	3.40	3.40	616.75	3.40	3.40	620.15	3.40	3.40	623.55	3.40	3.40	626.95	3.40	3.40	630.35	3.40	3.40	633.75	3.40	3.40	637.15	3.40	3.40	640.55	3.40	3.40	643.95	3.40	3.40	647.35	3.40	3.40	650.75	3.40	3.40	654.15	3.40	3.40	657.55	3.40	3.40	660.95	3.40	3.40	664.35	3.40	3.40	667.75	3.40	3.40	671.15	3.40	3.40	674.55	3.40	3.40	677.95	3.40	3.40	681.35	3.40	3.40	684.75	3.40	3.40	688.15	3.40	3.40	691.55	3.40	3.40	694.95	3.40	3.40	698.35	3.40	3.40	701.75	3.40	3.40	705.15	3.40	3.40	708.55	3.40	3.40	711.95	3.40	3.40	715.35	3.40	3.40	718.75	3.40	3.40	722.15	3.40	3.40	725.55	3.40	3.40	728.95	3.40	3.40	732.35	3.40	3.40	735.75	3.40	3.40	739.15	3.40	3.40	742.55	3.40	3.40	745.95	3.40	3.40	749.35	3.40	3.40	752.75	3.40	3.40	756.15	3.40	3.40	759.55	3.40	3.40	762.95	3.40	3.40	766.35	3.40	3.40	769.75	3.40	3.40	773.15	3.40	3.40	776.55	3.40	3.40	779.95	3.40	3.40	783.35	3.40	3.40	786.75	3.40	3.40	790.15	3.40	3.40	793.55	3.40	3.40	796.95	3.40	3.40	800.35	3.40	3.40	803.75	3.40	3.40	807.15	3.40	3.40	810.55	3.40	3.40	813.95	3.40	3.40	817.35	3.40	3.40	820.75	3.40	3.40	824.15	3.40	3.40	827.55	3.40	3.40	830.95	3.40	3.40	834.35	3.40	3.40	837.75	3.40	3.40	841.15	3.40	3.40	844.55	3.40	3.40	847.95	3.40	3.40	851.35	3.40	3.40	854.75	3.40	3.40	858.15	3.40	3.40	861.55	3.40	3.40	864.95	3.40	3.40	868.35	3.40	3.40	871.75	3.40	3.40	875.15	3.40	3.40	878.55	3.40	3.40	881.95	3.40	3.40	885.35	3.40	3.40	888.75	3.40	3.40	892.15	3.40	3.40	895.55	3.40	3.40	898.95	3.40	3.40	902.35	3.40	3.40	905.75	3.40	3.40	909.15	3.40	3.40	912.55	3.40	3.40	915.95	3.40	3.40	919.35	3.40	3.40	922.75	3.40	3.40	926.15	3.40	3.40	929.55	3.40	3.40	932.95	3.40	3.40	936.35	3.40	3.40	939.75	3.40	3.40	94

# 5 Capacity tables

## 5 - 1 Cooling Capacity Tables

### FFA60A9 / RZAG50A

#### Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
41.8	11	18	3.37	3.37	0.33	3.37	3.37	0.36	3.37	3.37	0.40	3.37	3.37	0.44	3.37	3.37	0.48	3.37	3.37	0.53	3.37	3.37	0.64	3.37	3.37	0.75	3.37	3.37	0.87	3.37	3.37	1.00	3.37	3.37	1.13	3.37	3.37	1.26	3.37	3.37	1.40
57	13		4.68	3.43	0.41	4.68	3.43	0.46	4.68	3.43	0.50	4.68	3.43	0.55	4.68	3.43	0.60	4.68	3.43	0.66	4.68	3.43	0.77	4.68	3.43	0.90	4.68	3.43	1.02	4.68	3.43	1.15	4.54	3.36	1.26	4.31	3.25	1.36	4.08	3.13	1.46
31.4	11		3.36	3.36	0.33	3.36	3.36	0.36	3.36	3.36	0.40	3.36	3.36	0.44	3.36	3.36	0.48	3.36	3.36	0.53	3.36	3.36	0.63	3.36	3.36	0.75	3.36	3.36	0.87	3.36	3.36	0.99	3.36	3.36	1.13	3.36	3.36	1.26	3.36	3.36	1.40
44.9	13	20	4.67	3.96	0.41	4.67	3.96	0.45	4.67	3.96	0.50	4.67	3.96	0.55	4.67	3.96	0.60	4.67	3.96	0.66	4.67	3.96	0.77	4.67	3.96	0.89	4.67	3.96	1.02	4.67	3.96	1.15	4.54	3.89	1.26	4.31	3.78	1.36	4.08	3.66	1.46
52	14		5.12	3.84	0.45	5.12	3.84	0.50	5.12	3.84	0.55	5.12	3.84	0.60	5.12	3.84	0.66	5.12	3.84	0.71	5.12	3.84	0.83	5.12	3.84	0.96	5.12	3.84	1.06	4.89	3.72	1.16	4.66	3.61	1.26	4.42	3.49	1.37	4.19	3.38	1.47
22.9	11		3.35	3.35	0.33	3.35	3.35	0.36	3.35	3.35	0.40	3.35	3.35	0.44	3.35	3.35	0.48	3.35	3.35	0.53	3.35	3.35	0.63	3.35	3.35	0.75	3.35	3.35	0.87	3.35	3.35	0.99	3.35	3.35	1.13	3.35	3.35	1.26	3.35	3.35	1.40
34.8	13	22	4.65	4.48	0.41	4.65	4.48	0.45	4.65	4.48	0.50	4.65	4.48	0.55	4.65	4.48	0.60	4.65	4.48	0.66	4.65	4.48	0.77	4.65	4.48	0.89	4.65	4.48	1.02	4.65	4.48	1.15	4.54	4.42	1.26	4.31	4.31	1.36	4.08	4.08	1.46
47.6	15		5.24	4.07	0.48	5.24	4.07	0.53	5.24	4.07	0.59	5.24	4.07	0.64	5.24	4.07	0.70	5.24	4.07	0.76	5.24	4.07	0.86	5.24	4.07	0.96	5.24	4.07	1.06	5.00	3.96	1.16	4.77	3.85	1.27	4.54	3.74	1.37	4.31	3.63	1.47
54.3	16		5.35	3.77	0.65	5.35	3.77	0.70	5.35	3.77	0.76	5.35	3.77	0.76	5.35	3.77	0.76	5.35	3.77	0.76	5.35	3.77	0.86	5.35	3.77	0.96	5.35	3.77	1.07	5.12	3.66	1.17	4.89	3.55	1.27	4.65	3.45	1.37	4.42	3.34	1.47
21.2	12		3.98	3.98	0.37	3.98	3.98	0.41	3.98	3.98	0.45	3.98	3.98	0.49	3.98	3.98	0.54	3.98	3.98	0.59	3.98	3.98	0.70	3.98	3.98	0.82	3.98	3.98	0.95	3.98	3.98	1.07	3.98	3.98	1.20	3.98	3.98	1.33	3.96	3.96	1.46
32.1	14		5.12	4.90	0.45	5.12	4.90	0.50	5.12	4.90	0.55	5.12	4.90	0.60	5.12	4.90	0.65	5.12	4.90	0.71	5.12	4.90	0.83	5.12	4.90	0.96	5.12	4.90	1.06	4.89	4.78	1.16	4.66	4.66	1.26	4.42	4.42	1.37	4.19	4.19	1.47
43.8	16	24	5.35	4.30	0.65	5.35	4.30	0.70	5.35	4.30	0.76	5.35	4.30	0.76	5.35	4.30	0.76	5.35	4.30	0.76	5.35	4.30	0.86	5.35	4.30	0.96	5.35	4.30	1.07	5.12	4.19	1.17	4.89	4.09	1.27	4.65	3.98	1.37	4.42	3.87	1.47
50	17		5.47	4.00	0.86	5.47	4.00	0.86	5.47	4.00	0.86	5.47	4.00	0.86	5.47	4.00	0.86	5.47	4.00	0.86	5.47	4.00	0.97	5.47	4.00	1.07	5.47	4.00	1.17	5.24	3.89	1.27	5.00	3.79	1.37	4.77	3.69	1.47			
21.5	14		5.12	5.12	0.45	5.12	5.12	0.50	5.12	5.12	0.54	5.12	5.12	0.60	5.12	5.12	0.65	5.12	5.12	0.71	5.12	5.12	0.83	5.12	5.12	0.95	5.12	5.12	1.06	4.89	4.89	1.16	4.66	4.66	1.26	4.42	4.42	1.37	4.19	4.19	1.47
26.3	15	27	5.24	5.24	0.48	5.24	5.24	0.53	5.24	5.24	0.59	5.24	5.24	0.64	5.24	5.24	0.70	5.24	5.24	0.76	5.24	5.24	0.86	5.24	5.24	0.96	5.24	5.24	1.06	5.00	5.00	1.16	4.77	4.77	1.27	4.54	4.54	1.37	4.31	4.31	1.47
31.3	16		5.35	5.10	0.65	5.35	5.10	0.70	5.35	5.10	0.76	5.35	5.10	0.76	5.35	5.10	0.76	5.35	5.10	0.76	5.35	5.10	0.86	5.35	5.10	0.96	5.35	5.10	1.07	5.12	4.99	1.17	4.89	4.88	1.27	4.65	4.65	1.37	4.42	4.42	1.47

#### Symbols

- EWB : Entering wet-bulb temperature (°C WB)  
 EDB : Entering dry-bulb temperature (°C DB)  
 TC : Total capacity [kW]  
 SHC : Sensible heat capacity [kW]  
 PI : Power input [kW]  
 RH : Relative humidity [%]

#### Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- When the system performs indoor de-icing operation, these net capacities may change.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- The capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 5 m  
 Level difference: 0m

**3D120431**

### FDXM50F9 / RZAG35A

#### Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
			RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
41.8	11	18	3.34	3.34	0.29	3.34	3.34	0.31	3.34	3.34	0.35	3.34	3.34	0.38	3.34	3.34	0.42	3.34	3.34	0.45	3.34	3.34	0.53	3.34	3.34	0.59	3.34	3.34	0.66	3.18	3.18	0.72	3.02	3.02	0.79	2.85	2.85	0.85	2.69	2.69	0.91
57	13		3.51	2.95	0.47	3.51	2.95	0.47	3.51	2.95	0.47	3.51	2.95	0.47	3.51	2.95	0.47	3.51	2.95	0.47	3.51	2.95	0.53	3.51	2.95	0.60	3.51	2.95	0.66	3.34	2.87	0.73	3.18	2.79	0.79	3.02	2.72	0.85	2.85	2.65	0.92
31.4	11		3.34	3.34	0.28	3.34	3.34	0.31	3.34	3.34	0.35	3.34	3.34	0.38	3.34	3.34	0.41	3.34	3.34	0.45	3.34	3.34	0.53	3.34	3.34	0.59	3.34	3.34	0.66	3.18	3.18	0.72	3.02	3.02	0.79	2.85	2.85	0.85	2.69	2.69	0.91
44.9	13	20	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.53	3.51	3.51	0.60	3.51	3.51	0.66	3.34	3.34	0.73	3.18	3.18	0.79	3.02	3.02	0.85	2.85	2.85	0.92
52	14		3.59	3.21	0.54	3.59	3.21	0.54	3.59	3.21	0.54	3.59	3.21	0.54	3.59	3.21	0.54	3.59	3.21	0.54	3.59	3.21	0.60	3.59	3.21	0.66	3.59	3.21	0.72	3.42	3.14	0.73	3.26	3.06	0.79	3.10	2.99	0.86	2.93	2.92	0.92
22.9	11		3.34	3.34	0.28	3.34	3.34	0.31	3.34	3.34	0.35	3.34	3.34	0.38	3.34	3.34	0.41	3.34	3.34	0.45	3.34	3.34	0.53	3.34	3.34	0.59	3.34	3.34	0.66	3.18	3.18	0.72	3.02	3.02	0.79	2.85	2.85	0.85	2.69	2.69	0.91
34.8	13	22	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.47	3.51	3.51	0.53	3.51	3.51	0.60	3.51	3.51	0.66	3.34	3.34	0.73	3.18	3.18	0.79	3.02	3.02	0.85	2.85	2.85	0.92
47.6	15		3.67	3.47	0.54	3.67	3.47	0.54	3.67	3.47	0.54	3.67	3.47	0.54	3.67	3.47	0.54	3.67	3.47	0.54	3.67	3.47	0.60	3.67	3.47	0.66	3.67	3.47	0.72	3.50	3.40	0.73	3.34	3.33	0.79	3.18	3.18	0.86	3.01	3.01	0.92
54.3	16		3.75	3.16	0.54	3.75	3.16	0.54	3.75	3.16	0.54	3.75	3.16	0.54	3.75	3.16	0.54	3.75	3.16	0.54	3.75	3.16	0.60	3.75	3.16	0.66	3.75	3.16	0.72	3.58	3.09	0.73	3.42	3.02	0.80	3.26	2.95	0.86	3.10	2.89	0.92
21.2	12		3.42	3.42	0.37	3.42	3.42	0.40	3.42	3.42	0.43	3.42	3.42	0.47	3.42	3.42	0.51	3.42	3.42	0.55	3.42	3.42	0.63	3.42	3.42	0.70	3.42	3.42	0.76	3.26	3.26	0.72	3.10	3.10	0.79	2.94	2.94	0.85	2.77	2.77	0.92
32.1	14		3.59	3.59	0.54	3.59	3.59	0.54	3.59	3.59	0.54	3.59	3.59	0.54	3.59	3.59	0.54	3.59	3.59	0.54	3.59	3.59	0.60	3.59	3.59	0.66	3.59	3.59	0.72	3.42	3.42	0.73	3.26	3.26	0.79	3.10	3.10	0.86	2.93	2.93	0.92
43.8	16	24	3.75	3.73	0.54	3.75																																			







# 5 Capacity tables

## 5 - 1 Cooling Capacity Tables

5

### FTXM50N / RZAG35A FTXM50R / RZAG35A

Cooling

Indoor temperature		Outdoor temperature [°C DB]																																																	
		-20				-15				-10				-5				0				5				10				15				20				25				30				35				40	
RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI										
[%]	°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW						
41.8	11	18	2.91	2.91	0.26	2.91	2.91	0.28	2.91	2.91	0.30	2.91	2.91	0.33	2.91	2.91	0.36	2.91	2.91	0.39	2.91	2.91	0.42	2.91	2.91	0.45	2.91	2.91	0.47	2.91	2.91	0.50	2.91	2.91	0.52	2.91	2.91	0.55	2.91	2.91	0.57	2.91	2.91	0.60	2.91	2.91					
57	13	18	3.51	2.70	0.34	3.51	2.70	0.37	3.51	2.70	0.40	3.51	2.70	0.43	3.51	2.70	0.47	3.51	2.70	0.50	3.51	2.70	0.53	3.51	2.70	0.56	3.51	2.70	0.60	3.51	2.70	0.62	3.51	2.70	0.65	3.51	2.70	0.68	3.51	2.70	0.72	3.51	2.70	0.75	3.51	2.70					
31.4	11	20	2.90	2.90	0.26	2.90	2.90	0.28	2.90	2.90	0.30	2.90	2.90	0.33	2.90	2.90	0.36	2.90	2.90	0.39	2.90	2.90	0.42	2.90	2.90	0.45	2.90	2.90	0.47	2.90	2.90	0.50	2.90	2.90	0.52	2.90	2.90	0.55	2.90	2.90	0.57	2.90	2.90	0.60	2.90	2.90					

Symbols  
 EWB: Entering wet-bulb temperature (°C WB)  
 EDB: Entering dry-bulb temperature (°C DB)  
 TC: Total capacity [kW]  
 SHC: Sensible heat capacity [kW]  
 PI: Power input [kW]  
 RH: Relative humidity [%]

- Notes
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
  - When the system performs indoor de-icing operation, these net capacities may change.
  - The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
  - The capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 5- m  
 Level difference: 0- m

3D122105A

### FTXM60N / RZAG50A FTXM60R / RZAG50A

Cooling

Indoor temperature		Outdoor temperature [°C DB]																																																	
		-20				-15				-10				-5				0				5				10				15				20				25				30				35				40	
RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI							
[%]	°C	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW			
41.8	11	18	3.27	3.27	0.44	3.27	3.27	0.47	3.27	3.27	0.51	3.27	3.27	0.56	3.27	3.27	0.62	3.27	3.27	0.68	3.27	3.27	0.75	3.27	3.27	0.85	3.27	3.27	0.94	3.27	3.27	1.03	3.27	3.27	1.13	3.27	3.27	1.22	3.27	3.27	1.31	3.27	3.27	1.41	3.27	3.27					
57	13	18	4.54	3.33	0.46	4.54	3.33	0.50	4.54	3.33	0.55	4.54	3.33	0.60	4.54	3.33	0.65	4.54	3.33	0.71	4.54	3.33	0.76	4.54	3.33	0.86	4.54	3.33	0.95	4.54	3.33	1.04	4.54	3.33	1.13	4.54	3.33	1.22	4.54	3.33	1.31	4.54	3.33	1.41	4.54	3.33					
31.4	11	20	3.26	3.26	0.44	3.26	3.26	0.47	3.26	3.26	0.51	3.26	3.26	0.56	3.26	3.26	0.62	3.26	3.26	0.68	3.26	3.26	0.75	3.26	3.26	0.85	3.26	3.26	0.94	3.26	3.26	1.03	3.26	3.26	1.13	3.26	3.26	1.22	3.26	3.26	1.31	3.26	3.26	1.41	3.26	3.26					

Symbols  
 EWB: Entering wet-bulb temperature (°C WB)  
 EDB: Entering dry-bulb temperature (°C DB)  
 TC: Total capacity [kW]  
 SHC: Sensible heat capacity [kW]  
 PI: Power input [kW]  
 RH: Relative humidity [%]

- Notes
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
  - When the system performs indoor de-icing operation, these net capacities may change.
  - The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
  - The capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 5- m  
 Level difference: 0- m

3D122107A

5 Capacity tables
5 - 1 Cooling Capacity Tables

FTXM71N / RZAG60A
FTXM71R / RZAG60A

Cooling

Table with columns for Indoor temperature and Outdoor temperature [°C DB] ranging from -20 to 40. Rows include RH, EWB, EDB, TC, SHC, and PI values.

Symbols

- EWB: Entering wet-bulb temperature (°C WB)
EDB: Entering dry-bulb temperature (°C DB)
TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]
PI: Power input [kW]
RH: Relative humidity [%]

Notes

- 1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. When the system performs indoor de-icing operation, these net capacities may change.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. The capacities are based on the following conditions:
Corresponding refrigerant piping length: -5 m
Level difference: -0m

3D122109A

FHA50A98 / RZAG35A

Performance characteristics for ·EDP· room

FHA50AVEB99+RZAG35A2V1B
FHA50AVEB98+RZAG35A2V1B

Table with columns for Indoor and Outdoor temperature [°C DB] ranging from -20 to 40. Rows include RH, EWB, EDB, TC, SHC, and PI values.

Symbols

- RH: Relative humidity [%]
BF: Bypass factor
[°C WB]: Entering wet-bulb temperature [°C WB]
[°C DB]: Entering dry-bulb temperature [°C DB]
TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]
PI: Power input [kW]

Notes

- 1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. When the system performs indoor de-icing operation, these net capacities may change.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. The capacities are based on the following conditions:
Corresponding refrigerant piping length: -5 m
Level difference: -0m

3D120440B

# 5 Capacity tables

## 5 - 1 Cooling Capacity Tables

5

### FHA60A98 / RZAG50A

Performance characteristics for ·EDP· room

FHA60AVEB9 + RZAG50A2V1B

FHA60AVEB99+RZAG50A2V1B

FHA60AVEB98+RZAG50A2V1B

#### Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
%	°C	°C	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41.8	11	18	4.03	4.03	0.32	4.03	4.03	0.35	4.03	4.03	0.39	4.03	4.03	0.43	4.03	4.03	0.47	4.03	4.03	0.51	4.03	4.03	0.61	4.03	4.03	0.71	4.03	4.03	0.82	4.03	4.03	0.93	4.03	4.03	1.04	4.03	4.03	1.15	3.85	3.85	1.25
57	13	20	5.01	3.81	0.40	5.01	3.81	0.44	5.01	3.81	0.49	5.01	3.81	0.53	5.01	3.81	0.58	5.01	3.81	0.63	5.01	3.81	0.73	5.01	3.81	0.82	5.01	3.81	0.90	4.77	3.69	0.99	4.54	3.58	1.08	4.31	3.47	1.16	4.08	3.36	1.25
31.4	11	18	4.02	4.02	0.32	4.02	4.02	0.35	4.02	4.02	0.39	4.02	4.02	0.43	4.02	4.02	0.47	4.02	4.02	0.51	4.02	4.02	0.61	4.02	4.02	0.71	4.02	4.02	0.82	4.02	4.02	0.93	4.02	4.02	1.04	4.02	4.02	1.15	3.85	3.85	1.25
44.9	13	20	5.01	4.44	0.40	5.01	4.44	0.44	5.01	4.44	0.49	5.01	4.44	0.53	5.01	4.44	0.58	5.01	4.44	0.63	5.01	4.44	0.73	5.01	4.44	0.82	5.01	4.44	0.90	4.77	4.33	0.99	4.54	4.21	1.08	4.31	4.10	1.16	4.08	3.99	1.25
52	14	20	5.12	4.10	0.50	5.12	4.10	0.55	5.12	4.10	0.60	5.12	4.10	0.64	5.12	4.10	0.69	5.12	4.10	0.74	5.12	4.10	0.84	5.12	4.10	0.92	5.12	4.10	0.99	4.89	3.99	0.99	4.66	3.88	1.08	4.42	3.77	1.17	4.19	3.66	1.25
22.9	11	18	4.01	4.01	0.32	4.01	4.01	0.35	4.01	4.01	0.39	4.01	4.01	0.43	4.01	4.01	0.47	4.01	4.01	0.51	4.01	4.01	0.61	4.01	4.01	0.71	4.01	4.01	0.82	4.01	4.01	0.93	4.01	4.01	1.04	4.01	4.01	1.15	3.85	3.85	1.25
34.8	13	22	5.01	5.01	0.40	5.01	5.01	0.44	5.01	5.01	0.48	5.01	5.01	0.53	5.01	5.01	0.58	5.01	5.01	0.63	5.01	5.01	0.73	5.01	5.01	0.82	5.01	5.01	0.90	4.77	4.77	0.99	4.54	4.54	1.08	4.31	4.31	1.16	4.08	4.08	1.25
47.6	15	22	5.24	4.38	0.65	5.24	4.38	0.65	5.24	4.38	0.65	5.24	4.38	0.65	5.24	4.38	0.65	5.24	4.38	0.65	5.24	4.38	0.73	5.24	4.38	0.82	5.24	4.38	0.91	5.00	4.27	1.00	4.77	4.17	1.08	4.54	4.06	1.17	4.31	3.96	1.26
54.3	16	22	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.74	5.35	4.03	0.82	5.35	4.03	0.91	5.12	3.92	1.00	4.89	3.82	1.08	4.65	3.72	1.17	4.42	3.62	1.26
21.2	12	24	4.76	4.76	0.36	4.76	4.76	0.40	4.76	4.76	0.44	4.76	4.76	0.48	4.76	4.76	0.52	4.76	4.76	0.57	4.76	4.76	0.67	4.76	4.76	0.78	4.76	4.76	0.89	4.66	4.66	0.99	4.43	4.43	1.07	4.19	4.19	1.16	3.96	3.96	1.25
32.1	14	24	5.12	5.12	0.50	5.12	5.12	0.55	5.12	5.12	0.60	5.12	5.12	0.64	5.12	5.12	0.69	5.12	5.12	0.74	5.12	5.12	0.84	5.12	5.12	0.92	5.12	5.12	0.99	4.89	4.89	0.99	4.66	4.66	1.08	4.42	4.42	1.17	4.19	4.19	1.25
43.8	16	24	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.74	5.35	4.66	0.82	5.35	4.66	0.91	5.12	4.56	1.00	4.89	4.46	1.08	4.65	4.35	1.17	4.42	4.25	1.26
50	17	24	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.74	5.47	4.30	0.83	5.47	4.30	0.91	5.24	4.20	1.00	5.00	4.11	1.09	4.77	4.01	1.17	4.54	3.91	1.26
21.5	14	27	5.12	5.12	0.50	5.12	5.12	0.55	5.12	5.12	0.60	5.12	5.12	0.64	5.12	5.12	0.69	5.12	5.12	0.74	5.12	5.12	0.84	5.12	5.12	0.92	5.12	5.12	0.99	4.89	4.89	0.99	4.66	4.66	1.08	4.42	4.42	1.17	4.19	4.19	1.25
26.3	15	27	5.24	5.24	0.65	5.24	5.24	0.65	5.24	5.24	0.65	5.24	5.24	0.65	5.24	5.24	0.65	5.24	5.24	0.65	5.24	5.24	0.73	5.24	5.24	0.82	5.24	5.24	0.91	5.00	5.00	1.00	4.77	4.77	1.08	4.54	4.54	1.17	4.31	4.31	1.26
31.3	16	27	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.74	5.35	5.35	0.82	5.35	5.35	0.91	5.12	5.12	1.00	4.89	4.89	1.08	4.65	4.65	1.17	4.42	4.42	1.26

#### Symbols

EWB: Entering wet-bulb temperature (°C WB)

EDB: Entering dry-bulb temperature (°C DB)

TC: Total capacity [kW]

SHC: Sensible heat capacity [kW]

PI: Power input [kW]

RH: Relative humidity [%]

#### Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- When the system performs indoor de-icing operation, these net capacities may change.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0·m

3D120441B

### FHA71A98 / RZAG60A

Performance characteristics for ·EDP· room

FHA71AVEB9 + RZAG60A2V1B

FHA71AVEB99+RZAG60A2V1B

FHA71AVEB98+RZAG60A2V1B

#### Cooling

Indoor			Outdoor temperature [°C DB]																																						
			-20			-15			-10			-5			0			5			10			15			20			25			30			35			40		
RH	EWB	EDB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
%	°C	°C	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-	kW	kW	-
41.8	11	18	4.61	4.61	0.41	4.61	4.61	0.45	4.61	4.61	0.50	4.61	4.61	0.55	4.61	4.61	0.61	4.61	4.61	0.67	4.61	4.61	0.80	4.61	4.61	0.93	4.61	4.61	1.05	4.61	4.61	1.15	4.61	4.61	1.25	4.61	4.61	1.35	4.61	4.61	1.46
57	13	20	6.01	4.50	0.47	6.01	4.50	0.51	6.01	4.50	0.57	6.01	4.50	0.62	6.01	4.50	0.68	6.01	4.50	0.74	6.01	4.50	0.85	6.01	4.50	0.95	6.01	4.50	1.05	6.01	4.50	1.15	6.01	4.50	1.25	6.01	4.50	1.35	6.01	4.50	1.46
31.4	11	18	4.59	4.59	0.41	4.59	4.59	0.45	4.59	4.59	0.50	4.59	4.59	0.55	4.59	4.59	0.61	4.59	4.59	0.67	4.59	4.59	0.80	4.59	4.59	0.93	4.59	4.59	1.05	4.59	4.59	1.15	4.59	4.59	1.25	4.59	4.59	1.35	4.59	4.59	1.46
44.9	13	20	6.01	5.22	0.47	6.01	5.22	0.51	6.01	5.22	0.57	6.01	5.22	0.62	6.01	5.22	0.68	6.01	5.22	0.74	6.01	5.22	0.85	6.01	5.22	0.95	6.01	5.22	1.05	6.01	5.22	1.15	6.01	5.22	1.25	6.01	5.22	1.35	6.01	5.22	1.46
52	14	20	6.15	4.82	0.54	6.15	4.82	0.59	6.15	4.82	0.64	6.15	4.82	0.70	6.15	4.82	0.75	6.15	4.82	0.85	6.15	4.82	0.96	6.15	4.82	1.06	6.15	4.82	1.16	6.15	4.82	1.26	6.15	4.82	1.36	6.15	4.82	1.46			
22.9	11	18	4.58	4.58	0.41	4.58	4.58	0.45	4.58	4.58	0.50	4.58	4.58	0.55	4.58	4.58	0.61	4.58	4.58	0.67	4.58	4.58	0.80	4.58	4.58	0.93	4.58	4.58	1.05	4.58	4.58	1.15	4.58	4.58	1.25	4.58	4.58	1.35	4.58	4.58	1.46
34.8	13	22	6.01	5.94	0.47	6.01	5.94	0.51	6.01	5.94	0.57	6.01	5.94	0.62	6.01	5.94	0.68	6.01	5.94	0.74	6.01	5.94	0.85	6.01	5.94	0.95	6.01	5.94	1.05	6.01	5.94	1.15	6.01	5.94	1.25	6.01	5.94	1.35	6.01	5.94	1.46
47.6	15	22	6.29	5.15	0.70	6.29	5.15	0.76	6.29	5.15	0.81	6.29	5.15	0.86	6.29	5.15	0.91	6.29	5.15	0.96	6.29	5.15	1.06	6.29	5.15	1.16	6.29	5.15	1.26	6.29	5.15	1.36	6.29	5.15	1.46						
54.3	16	22	6.42	4.74	0.86	6.42	4.																																		



# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

5

### FCAG35B / RZAG35A

Cooling -50-Hz -220-240-V

AFR	12.5
BF	0.24

Indoor temperature		Outdoor temperature [°C DB]																			
°C	°C	20				25				30				35				40			
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI		
14.0	20	3.59	2.72	0.61	3.42	2.64	0.67	3.26	2.56	0.73	3.10	2.53	0.75	3.10	2.48	0.79	2.93	2.41	0.84		
16.0	22	3.75	2.67	0.61	3.58	2.60	0.67	3.42	2.53	0.73	3.36	2.50	0.75	3.26	2.45	0.79	3.10	2.38	0.85		
18.0	25	3.91	2.81	0.62	3.75	2.74	0.68	3.58	2.67	0.73	3.52	2.64	0.76	3.42	2.60	0.79	3.26	2.54	0.85		
19.0	27	3.99	2.97	0.62	3.83	2.91	0.68	3.66	2.84	0.74	3.60	2.81	0.76	3.50	2.77	0.80	3.34	2.71	0.85		
22.0	30	4.23	2.87	0.62	4.07	2.81	0.68	3.90	2.75	0.74	3.84	2.73	0.77	3.74	2.69	0.80	3.58	2.64	0.86		
24.0	32	4.39	2.80	0.63	4.23	2.74	0.69	4.07	2.69	0.75	4.00	2.67	0.77	3.90	2.64	0.80	3.74	2.58	0.86		

Heating -50-Hz -220-240-V

AFR	12.5
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Indoor temperature		Outdoor temperature [°C WB]																	
°C	°C	-15			-10			-5			0			6			10		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
15.0	20	1.90	0.75	2.29	0.79	2.67	0.82	3.06	0.86	4.14	0.91	4.50	0.94						
20.0		1.79	0.77	2.17	0.81	2.56	0.85	2.94	0.88	4.00	0.93	4.36	0.96						
22.0		1.74	0.78	2.12	0.82	2.51	0.85	2.89	0.89	3.94	0.94	4.31	0.97						
24.0		1.69	0.79	2.08	0.82	2.46	0.86	2.85	0.90	3.89	0.95	4.25	0.98						
25.0		1.67	0.79	2.05	0.83	2.44	0.87	2.82	0.90	3.86	0.95	4.22	0.98						
27.0		1.62	0.80	2.01	0.84	2.39	0.88	2.77	0.91	3.81	0.96	4.17	0.99						

Symbols

- AFR : Air flow rate [m<sup>3</sup>/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature [°C WB]
- EDB : Entering dry-bulb temperature [°C DB]
- TC : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the □ · mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: -5 m  
Level difference: -0 m
6. The air flow rate and bypass factor are mentioned in the table.

3D120371A

### FCAG50B / RZAG50A

Cooling -50-Hz -220-240-V

AFR	12.6
BF	0.21

Indoor temperature		Outdoor temperature [°C DB]																			
°C	°C	20				25				30				35				40			
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI		
14.0	20	4.66	3.02	0.93	4.66	3.02	1.05	4.66	3.02	1.17	4.56	3.02	1.21	4.42	3.02	1.27	4.19	3.02	1.36		
16.0	22	5.35	3.42	0.99	5.12	3.38	1.08	4.89	3.26	1.18	4.79	3.22	1.22	4.65	3.15	1.27	4.42	3.04	1.37		
18.0	25	5.58	3.62	0.99	5.35	3.51	1.09	5.12	3.40	1.18	5.02	3.36	1.22	4.88	3.30	1.28	4.65	3.19	1.37		
19.0	27	5.70	3.78	1.00	5.47	3.68	1.09	5.23	3.57	1.19	5.14	3.53	1.23	5.00	3.47	1.28	4.77	3.37	1.38		
22.0	30	6.04	3.63	1.01	5.81	3.54	1.10	5.58	3.45	1.20	5.49	3.41	1.23	5.35	3.35	1.29	5.11	3.26	1.39		
24.0	32	6.27	3.52	1.01	6.04	3.44	1.11	5.81	3.35	1.20	5.72	3.32	1.24	5.58	3.27	1.30	5.34	3.19	1.39		

Heating -50-Hz -220-240-V

AFR	12.6
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Indoor temperature		Outdoor temperature [°C WB]																	
°C	°C	-15			-10			-5			0			6			10		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
15.0	20	2.76	1.26	3.32	1.32	3.88	1.39	4.43	1.45	6.00	1.53	6.52	1.58						
20.0		2.59	1.29	3.15	1.36	3.71	1.42	4.26	1.49	5.80	1.56	6.32	1.61						
22.0		2.52	1.31	3.08	1.37	3.64	1.44	4.19	1.50	5.72	1.58	6.24	1.63						
24.0		2.46	1.32	3.01	1.39	3.57	1.45	4.13	1.51	5.64	1.59	6.16	1.64						
25.0		2.42	1.33	2.98	1.39	3.54	1.46	4.09	1.52	5.60	1.60	6.12	1.65						
27.0		2.35	1.34	2.91	1.41	3.47	1.47	4.02	1.54	5.52	1.61	6.04	1.62						

Symbols

- AFR : Air flow rate [m<sup>3</sup>/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature [°C WB]
- EDB : Entering dry-bulb temperature [°C DB]
- TC : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the □ · mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: -5 m  
Level difference: -0 m
6. The air flow rate and bypass factor are mentioned in the table.

3D120372A

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

**FCAG60B / RZAG60A**

Cooling      ·50· Hz      ·220 - 240· V

AFR	13,6
BF	0,19

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	4,86	3,34	1,35	4,86	3,34	1,48	4,86	3,34	1,61	4,86	3,34	1,67	4,86	3,34	1,74	4,86	3,34	1,87
16,0	22	6,17	3,78	1,36	6,14	3,78	1,49	6,06	3,78	1,62	5,75	3,78	1,67	5,59	3,70	1,75	5,31	3,56	1,88
18,0	25	6,70	4,26	1,37	6,42	4,13	1,50	6,14	3,99	1,63	6,03	3,94	1,68	5,86	3,86	1,76	5,58	3,73	1,89
19,0	27	6,84	4,44	1,37	6,56	4,30	1,50	6,28	4,17	1,63	6,17	4,12	1,69	6,00	4,05	1,76	5,72	3,92	1,89
22,0	30	7,25	4,26	1,38	6,97	4,14	1,51	6,69	4,02	1,65	6,58	3,98	1,70	6,41	3,91	1,78	6,14	3,80	1,91
24,0	32	7,53	4,12	1,39	7,25	4,02	1,52	6,97	3,91	1,65	6,86	3,87	1,71	6,69	3,81	1,78	6,41	3,70	1,91

Heating      ·50· Hz      ·220 - 240· V

AFR	13,6
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		3,39	1,66	4,08	1,74	4,76	1,83	5,44	1,91	7,24	2,01	7,87	2,08
20,0		3,18	1,70	3,87	1,79	4,55	1,87	5,23	1,96	7,00	2,06	7,63	2,13
22,0		3,10	1,72	3,78	1,81	4,47	1,89	5,15	1,97	6,90	2,08	7,54	2,14
24,0		3,02	1,74	3,70	1,82	4,38	1,91	5,07	1,99	6,81	2,10	7,44	2,16
25,0		2,97	1,75	3,66	1,83	4,34	1,92	5,03	2,00	6,76	2,10	7,39	2,17
27,0		2,89	1,77	3,57	1,85	4,26	1,94	4,94	2,02	6,66	2,12	7,29	2,19

**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 : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

**Notes**

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
6. The air flow rate and bypass factor are mentioned in the table.

**3D120373A**

**FFA35A9 / RZAG35A**

Cooling      ·50· Hz      ·220 - 240· V

AFR	10,0
BF	0,2

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	3,59	2,42	0,67	3,42	2,42	0,74	3,26	2,41	0,80	3,19	2,38	0,83	3,10	2,33	0,87	2,93	2,25	0,93
16,0	22	3,75	2,53	0,68	3,58	2,46	0,74	3,42	2,38	0,80	3,36	2,35	0,83	3,26	2,30	0,87	3,10	2,22	0,93
18,0	25	3,91	2,64	0,68	3,75	2,57	0,74	3,58	2,49	0,81	3,52	2,47	0,83	3,42	2,42	0,87	3,26	2,35	0,94
19,0	27	3,99	2,77	0,68	3,83	2,70	0,75	3,66	2,63	0,81	3,60	2,60	0,84	3,50	2,56	0,88	3,34	2,49	0,94
22,0	30	4,23	2,67	0,69	4,07	2,61	0,75	3,90	2,54	0,82	3,84	2,52	0,84	3,74	2,48	0,88	3,58	2,42	0,95
24,0	32	4,39	2,60	0,69	4,23	2,54	0,76	4,07	2,48	0,82	4,00	2,46	0,85	3,90	2,43	0,88	3,74	2,37	0,95

Heating      ·50· Hz      ·220 - 240· V

AFR	10,0
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		1,90	0,87	2,29	0,91	2,67	0,96	3,06	1,00	4,14	1,05	4,50	1,09
20,0		1,79	0,89	2,17	0,94	2,56	0,98	2,94	1,02	4,00	1,08	4,36	1,11
22,0		1,74	0,90	2,12	0,95	2,51	0,99	2,89	1,03	3,94	1,09	4,31	1,12
24,0		1,69	0,91	2,08	0,96	2,46	1,00	2,85	1,04	3,89	1,10	4,25	1,13
25,0		1,67	0,92	2,05	0,96	2,44	1,00	2,82	1,05	3,86	1,10	4,22	1,14
27,0		1,62	0,93	2,01	0,97	2,39	1,01	2,77	1,06	3,81	1,11	4,17	1,15

**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: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

**Notes**

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
6. The air flow rate and bypass factor are mentioned in the table.

**3D120375**

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FFA50A9 / RZAG50A

Cooling 50 Hz 220 - 240 V

AFR	12,7
BF	0,14

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	4,69	3,31	1,08	4,69	3,31	1,22	4,66	3,31	1,35	4,56	3,31	1,39	4,42	3,28	1,45	4,19	3,16	1,56
16,0	22	5,35	3,58	1,13	5,12	3,46	1,24	4,89	3,35	1,35	4,79	3,30	1,40	4,65	3,24	1,46	4,42	3,13	1,57
18,0	25	5,58	3,72	1,14	5,35	3,61	1,25	5,12	3,51	1,36	5,02	3,47	1,40	4,88	3,40	1,47	4,65	3,30	1,58
19,0	27	5,70	3,90	1,14	5,47	3,79	1,25	5,23	3,69	1,36	5,14	3,65	1,40	5,00	3,59	1,47	4,77	3,49	1,58
22,0	30	6,04	3,75	1,15	5,81	3,66	1,26	5,58	3,57	1,37	5,49	3,53	1,41	5,35	3,48	1,48	5,11	3,39	1,59
24,0	32	6,27	3,64	1,16	6,04	3,56	1,27	5,81	3,48	1,38	5,72	3,44	1,42	5,58	3,40	1,49	5,34	3,32	1,59

Heating 50 Hz 220 - 240 V

AFR	12,7
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	15,0	2,76	1,51	3,32	1,58	3,88	1,66	4,43	1,74	6,00	1,83	6,52	1,89
20,0	20,0	2,59	1,55	3,15	1,62	3,71	1,70	4,26	1,78	5,80	1,87	6,32	1,93
22,0	22,0	2,52	1,56	3,08	1,64	3,64	1,72	4,19	1,80	5,72	1,89	6,24	1,95
24,0	24,0	2,46	1,58	3,01	1,66	3,57	1,74	4,13	1,81	5,64	1,90	6,16	1,97
25,0	25,0	2,42	1,59	2,98	1,67	3,54	1,74	4,09	1,82	5,60	1,91	6,12	1,97
27,0	27,0	2,35	1,61	2,91	1,68	3,47	1,76	4,02	1,84	5,52	1,93	6,06	1,95

**Symbols**

AFR : Air flow rate [m³/min]  
 BF : Bypass factor  
 EDB : Entering wet-bulb temperature (°C WB)  
 EWB : Entering dry-bulb temperature (°C DB)  
 TC : Total capacity [kW]  
 SHC : Sensible heat capacity [kW]  
 PI : Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 5 m  
 Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120376

### FFA60A9 / RZAG60A

Cooling 50 Hz 220 - 240 V

AFR	14,5
BF	0,1

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,36	3,96	1,42	5,36	3,96	1,56	5,36	3,96	1,70	5,36	3,96	1,75	5,31	3,93	1,84	5,03	3,79	1,97
16,0	22	6,42	4,29	1,43	6,14	4,15	1,57	5,86	4,01	1,71	5,75	3,96	1,76	5,59	3,88	1,84	5,31	3,75	1,98
18,0	25	6,70	4,46	1,44	6,42	4,33	1,58	6,14	4,20	1,72	6,03	4,15	1,77	5,86	4,08	1,85	5,58	3,95	1,99
19,0	27	6,84	4,67	1,45	6,56	4,55	1,58	6,28	4,42	1,72	6,17	4,38	1,77	6,00	4,30	1,86	5,72	4,19	1,99
22,0	30	7,25	4,49	1,46	6,97	4,38	1,59	6,69	4,27	1,73	6,58	4,23	1,79	6,41	4,17	1,87	6,14	4,06	2,01
24,0	32	7,53	4,36	1,47	7,25	4,26	1,60	6,97	4,17	1,74	6,86	4,13	1,80	6,69	4,07	1,88	6,41	3,97	2,01

Heating 50 Hz 220 - 240 V

AFR	14,5
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	15,0	3,33	1,94	4,01	2,04	4,68	2,14	5,35	2,24	7,24	2,36	7,87	2,44
20,0	20,0	3,13	2,00	3,80	2,10	4,47	2,19	5,14	2,29	7,00	2,41	7,63	2,49
22,0	22,0	3,05	2,02	3,72	2,12	4,39	2,22	5,06	2,32	6,90	2,43	7,54	2,51
24,0	24,0	2,96	2,04	3,64	2,14	4,31	2,24	4,98	2,34	6,81	2,46	7,44	2,54
25,0	25,0	2,92	2,05	3,59	2,15	4,27	2,25	4,94	2,35	6,76	2,47	7,37	2,55
27,0	27,0	2,84	2,07	3,51	2,17	4,18	2,27	4,86	2,37	6,66	2,49	7,29	2,57

**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 : Total capacity [kW]  
 SHC : Sensible heat capacity [kW]  
 PI : Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 5 m  
 Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120377



# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FDXM35F9 / RZAG35A

Cooling 50 Hz 220 - 240 V

AFR	8,7
BF	0,16

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	3,11	2,22	0,65	3,11	2,22	0,73	3,11	2,22	0,81	3,11	2,22	0,84	3,10	2,22	0,89	2,93	2,18	0,95
16,0	22	3,75	2,48	0,69	3,58	2,39	0,76	3,42	2,31	0,82	3,36	2,28	0,85	3,26	2,24	0,89	3,10	2,16	0,96
18,0	25	3,91	2,57	0,70	3,75	2,49	0,76	3,58	2,42	0,83	3,52	2,39	0,86	3,42	2,34	0,90	3,26	2,27	0,96
19,0	27	3,99	2,69	0,70	3,83	2,61	0,76	3,66	2,54	0,83	3,60	2,51	0,86	3,50	2,47	0,90	3,34	2,40	0,96
22,0	30	4,23	2,58	0,70	4,07	2,52	0,77	3,90	2,45	0,84	3,84	2,43	0,86	3,74	2,39	0,90	3,58	2,33	0,97
24,0	32	4,39	2,51	0,71	4,23	2,45	0,77	4,07	2,39	0,84	4,00	2,37	0,87	3,90	2,33	0,91	3,74	2,28	0,97

Heating 50 Hz 220 - 240 V

AFR	8,7
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Indoor temperature		Outdoor temperature [°C WB]												Symbols	
EDB		-15		-10		-5		0		6		10		AFR : Air flow rate [m³/min]	BF : Bypass factor
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	EWB : Entering wet-bulb temperature (°C WB)	EDB : Entering dry-bulb temperature (°C DB)
15,0		1,90	0,92	2,29	0,97	2,67	1,01	3,06	1,06	4,14	1,12	4,50	1,15	TC : Total capacity [kW]	
20,0		1,79	0,94	2,17	0,99	2,56	1,04	2,94	1,09	4,00	1,14	4,36	1,18	SHC : Sensible heat capacity [kW]	
22,0		1,74	0,95	2,12	1,00	2,51	1,05	2,89	1,10	3,94	1,15	4,31	1,19	PI : Power input [kW]	
24,0		1,69	0,97	2,08	1,01	2,46	1,06	2,85	1,11	3,89	1,16	4,25	1,20		
25,0		1,67	0,97	2,05	1,02	2,44	1,06	2,82	1,11	3,86	1,17	4,22	1,21		
27,0		1,62	0,98	2,01	1,03	2,39	1,07	2,77	1,12	3,81	1,18	4,17	1,22		

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120378

### FDXM50F9 / RZAG50A

50 Hz 220 - 240 V

AFR	15,8
BF	0,15

Cooling

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,12	3,87	1,01	4,89	3,76	1,11	4,66	3,65	1,20	4,56	3,60	1,24	4,42	3,53	1,30	4,19	3,42	1,40
16,0	22	5,35	3,81	1,01	5,12	3,70	1,11	4,89	3,59	1,21	4,79	3,55	1,25	4,65	3,49	1,31	4,42	3,38	1,40
18,0	25	5,58	4,00	1,02	5,35	3,90	1,12	5,12	3,80	1,21	5,02	3,76	1,25	4,88	3,70	1,31	4,65	3,61	1,41
19,0	27	5,70	4,23	1,02	5,47	4,13	1,12	5,23	4,04	1,22	5,14	4,00	1,26	5,00	3,94	1,32	4,77	3,85	1,41
22,0	30	6,04	4,08	1,03	5,81	4,00	1,13	5,58	3,91	1,23	5,49	3,88	1,27	5,35	3,83	1,32	5,11	3,75	1,42
24,0	32	6,27	3,98	1,04	6,04	3,90	1,14	5,81	3,82	1,23	5,72	3,79	1,27	5,58	3,75	1,33	5,34	3,67	1,43

50 Hz 220 - 240 V

AFR	15,8
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Heating

Indoor temperature		Outdoor temperature [°C WB]												Symbols	
EDB		-15		-10		-5		0		6		10		AFR : Air flow rate [m³/min]	BF : Bypass factor
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	EWB : Entering wet-bulb temperature (°C WB)	EDB : Entering dry-bulb temperature (°C DB)
15,0		2,38	1,18	2,86	1,24	3,34	1,30	3,82	1,36	5,17	1,44	5,62	1,49	TC : Total capacity [kW]	
20,0		2,23	1,22	2,71	1,28	3,19	1,34	3,67	1,40	5,00	1,47	5,45	1,52	SHC : Sensible heat capacity [kW]	
22,0		2,18	1,23	2,66	1,29	3,14	1,35	3,62	1,41	4,93	1,48	5,38	1,53	PI : Power input [kW]	
24,0		2,12	1,24	2,60	1,30	3,08	1,36	3,56	1,42	4,86	1,50	5,31	1,54		
25,0		2,09	1,25	2,57	1,31	3,05	1,37	3,53	1,43	4,83	1,50	5,28	1,55		
27,0		2,03	1,26	2,51	1,32	2,99	1,38	3,47	1,44	4,76	1,52	5,21	1,56		

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120379

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FDXM60F9 / RZAG60A

Cooling 50 Hz 220 - 240 V

AFR	16,0
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB °C	EDB °C	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,78	4,27	1,32	5,78	4,27	1,48	5,59	4,17	1,61	5,48	4,11	1,67	5,31	4,03	1,74	5,03	3,89	1,87
16,0	22	6,42	4,38	1,36	6,14	4,24	1,49	5,86	4,11	1,62	5,75	4,06	1,67	5,59	3,98	1,75	5,31	3,85	1,88
18,0	25	6,70	4,57	1,37	6,42	4,44	1,50	6,14	4,32	1,63	6,03	4,27	1,68	5,86	4,20	1,76	5,58	4,08	1,89
19,0	27	6,84	4,80	1,37	6,56	4,68	1,50	6,28	4,56	1,63	6,17	4,51	1,69	6,00	4,44	1,76	5,72	4,33	1,89
22,0	30	7,25	4,62	1,38	6,97	4,52	1,51	6,69	4,41	1,65	6,58	4,37	1,70	6,41	4,31	1,78	6,14	4,20	1,91
24,0	32	7,53	4,50	1,39	7,25	4,40	1,52	6,97	4,30	1,65	6,86	4,26	1,71	6,69	4,21	1,78	6,41	4,11	1,91

Heating 50 Hz 220 - 240 V

AFR	16,0
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Indoor temperature		Outdoor temperature [°C WB]											
EDB °C	TC	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	3,39	1,71	4,08	1,79	4,76	1,88	5,44	1,97	7,24	2,07	7,87	2,14	
20,0	3,18	1,75	3,87	1,84	4,55	1,93	5,23	2,02	7,00	2,12	7,63	2,19	
22,0	3,10	1,77	3,78	1,86	4,47	1,95	5,15	2,04	6,90	2,14	7,54	2,21	
24,0	3,02	1,79	3,70	1,88	4,38	1,97	5,07	2,05	6,81	2,16	7,44	2,23	
25,0	2,97	1,80	3,66	1,89	4,34	1,98	5,03	2,06	6,76	2,17	7,39	2,24	
27,0	2,89	1,82	3,57	1,91	4,26	2,00	4,94	2,08	6,66	2,19	7,29	2,26	

**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 : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120381

### FBA35A9 / RZAG35A

Cooling -50· Hz -220 - 240· V

AFR	15,0
BF	0,1

Indoor temperature		Outdoor temperature [°C DB]																	
EWB °C	EDB °C	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	3,59	3,15	0,60	3,42	3,07	0,65	3,26	3,00	0,71	3,19	2,97	0,73	3,10	2,93	0,77	2,93	2,85	0,83
16,0	22	3,75	3,10	0,60	3,58	3,03	0,66	3,42	2,96	0,71	3,36	2,93	0,74	3,26	2,89	0,77	3,10	2,82	0,83
18,0	25	3,91	3,31	0,60	3,75	3,25	0,66	3,58	3,18	0,72	3,52	3,16	0,74	3,42	3,12	0,78	3,26	3,06	0,83
19,0	27	3,99	3,56	0,60	3,83	3,49	0,66	3,66	3,43	0,72	3,60	3,41	0,74	3,50	3,37	0,78	3,34	3,31	0,83
22,0	30	4,23	3,45	0,61	4,07	3,40	0,67	3,90	3,34	0,72	3,84	3,32	0,75	3,74	3,29	0,78	3,58	3,24	0,84
24,0	32	4,39	3,38	0,61	4,23	3,33	0,67	4,07	3,28	0,73	4,00	3,27	0,75	3,90	3,24	0,79	3,74	3,19	0,84

Heating -50· Hz -220 - 240· V

AFR	15,0
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB °C	TC	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	1,90	0,73	2,29	0,77	2,67	0,81	3,06	0,84	4,14	0,89	4,50	0,92	
20,0	1,79	0,75	2,17	0,79	2,56	0,83	2,94	0,86	4,00	0,91	4,36	0,94	
22,0	1,74	0,76	2,12	0,80	2,51	0,83	2,89	0,87	3,94	0,92	4,31	0,95	
24,0	1,69	0,77	2,08	0,81	2,46	0,84	2,85	0,88	3,89	0,93	4,25	0,96	
25,0	1,67	0,77	2,05	0,81	2,44	0,85	2,82	0,88	3,86	0,93	4,22	0,96	
27,0	1,62	0,78	2,01	0,82	2,39	0,86	2,77	0,89	3,81	0,94	4,17	0,97	

**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: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: -5 m  
Level difference: -0 m
- The air flow rate and bypass factor are mentioned in the table.

3D120368

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FBA50A9 / RZAG50A

Cooling -50· Hz ·220 - 240· V

AFR	15,0
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,12	3,85	0,96	4,89	3,74	1,05	4,66	3,62	1,14	4,56	3,58	1,18	4,42	3,51	1,24	4,19	3,40	1,33
16,0	22	5,35	3,78	0,96	5,12	3,68	1,06	4,89	3,57	1,15	4,79	3,53	1,19	4,65	3,46	1,24	4,42	3,36	1,33
18,0	25	5,58	3,97	0,97	5,35	3,87	1,06	5,12	3,77	1,15	5,02	3,73	1,19	4,88	3,67	1,25	4,65	3,58	1,34
19,0	27	5,70	4,20	0,97	5,47	4,10	1,07	5,23	4,00	1,16	5,14	3,97	1,19	5,00	3,91	1,25	4,77	3,81	1,34
22,0	30	6,04	4,05	0,98	5,81	3,96	1,07	5,58	3,88	1,17	5,49	3,85	1,20	5,35	3,80	1,26	5,11	3,71	1,35
24,0	32	6,27	3,95	0,99	6,04	3,87	1,08	5,81	3,79	1,17	5,72	3,76	1,21	5,58	3,71	1,26	5,34	3,64	1,36

Heating -50· Hz ·220 - 240· V

AFR	15,0
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		2,86	1,27	3,43	1,34	4,01	1,40	4,58	1,47	6,21	1,54	6,75	1,60
20,0		2,68	1,31	3,26	1,37	3,83	1,44	4,41	1,50	6,00	1,58	6,54	1,63
22,0		2,61	1,32	3,19	1,39	3,76	1,45	4,34	1,52	5,92	1,59	6,46	1,65
24,0		2,54	1,33	3,12	1,40	3,69	1,46	4,27	1,53	5,83	1,61	6,38	1,66
25,0		2,51	1,34	3,08	1,41	3,66	1,47	4,23	1,54	5,79	1,61	6,33	1,67
27,0		2,43	1,36	3,01	1,42	3,59	1,49	4,16	1,55	5,71	1,63	6,25	1,68

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: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: -5· m  
Level difference: -0·m
- The air flow rate and bypass factor are mentioned in the table.

3D120369

### FBA60A9 / RZAG60A

Cooling 50 Hz 220 - 240 V

AFR	18,0
BF	0,15

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	6,15	4,57	1,14	5,87	4,43	1,25	5,59	4,29	1,36	5,48	4,24	1,40	5,31	4,16	1,46	5,03	4,02	1,57
16,0	22	6,42	4,49	1,14	6,14	4,36	1,25	5,86	4,23	1,36	5,75	4,18	1,41	5,59	4,10	1,47	5,31	3,97	1,58
18,0	25	6,70	4,70	1,15	6,42	4,58	1,26	6,14	4,46	1,37	6,03	4,41	1,41	5,86	4,34	1,48	5,58	4,22	1,59
19,0	27	6,84	4,96	1,15	6,56	4,84	1,26	6,28	4,73	1,37	6,17	4,68	1,42	6,00	4,61	1,48	5,72	4,50	1,59
22,0	30	7,25	4,79	1,16	6,97	4,68	1,27	6,69	4,58	1,38	6,58	4,54	1,43	6,41	4,48	1,49	6,14	4,38	1,60
24,0	32	7,53	4,66	1,17	7,25	4,57	1,28	6,97	4,47	1,39	6,86	4,43	1,43	6,69	4,38	1,50	6,41	4,29	1,61

Heating 50 Hz 220 - 240 V

AFR	18,0
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Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		3,39	1,48	4,08	1,56	4,76	1,63	5,44	1,71	7,24	1,80	7,87	1,86
20,0		3,18	1,52	3,87	1,60	4,55	1,68	5,23	1,75	7,00	1,84	7,63	1,90
22,0		3,10	1,54	3,78	1,62	4,47	1,69	5,15	1,77	6,90	1,86	7,54	1,92
24,0		3,02	1,56	3,70	1,63	4,38	1,71	5,07	1,78	6,81	1,88	7,44	1,94
25,0		2,97	1,56	3,66	1,64	4,34	1,72	5,03	1,79	6,76	1,88	7,39	1,94
27,0		2,89	1,58	3,57	1,66	4,26	1,73	4,94	1,81	6,66	1,90	7,29	1,96

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: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5· m  
Level difference: 0·m
- The air flow rate and bypass factor are mentioned in the table.

3D120370

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

5

### FTXM35N / RZAG35A

### FTXM35R / RZAG35A

Cooling · 50· Hz · 220 - 240· V

AFR	12,3
BF	0,21

Indoor		Outdoor temperature [°C DB]																	
EWB	WDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	3,59	2,67	0,62	3,42	2,62	0,68	3,26	2,57	0,74	3,19	2,55	0,77	3,10	2,53	0,80	2,93	2,50	0,86
16	22	3,75	2,64	0,62	3,58	2,59	0,68	3,42	2,52	0,74	3,36	2,49	0,77	3,26	2,45	0,80	3,10	2,39	0,86
18	25	3,91	2,80	0,63	3,75	2,72	0,69	3,58	2,68	0,75	3,52	2,63	0,77	3,42	2,60	0,81	3,26	2,55	0,87
19	27	3,99	2,95	0,63	3,83	2,90	0,69	3,66	2,88	0,75	3,60	2,87	0,77	3,50	2,86	0,81	3,34	2,84	0,87
22	30	4,23	2,89	0,64	4,07	2,86	0,70	3,90	2,78	0,76	3,84	2,77	0,78	3,74	2,74	0,82	3,58	2,65	0,88
24	32	4,39	2,82	0,64	4,23	2,78	0,70	4,07	2,74	0,76	4,00	2,72	0,78	3,90	2,69	0,82	3,74	2,59	0,88

Heating · 50· Hz · 220 - 240· V

AFR	10,8
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Indoor		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	15	1,87	0,82	2,40	0,86	2,94	0,90	3,49	0,94	4,21	0,99	4,53	1,01
20	16,6	0,88	2,19	0,91	2,73	0,95	3,28	0,99	4,00	1,04	4,32	1,06	
22	1,58	0,90	2,11	0,93	2,64	0,97	3,20	1,01	3,92	1,06	4,23	1,08	
24	1,49	0,92	2,03	0,95	2,56	0,99	3,12	1,03	3,83	1,07	4,15	1,10	
25	1,45	0,93	1,98	0,96	2,52	1,00	3,07	1,04	3,79	1,07	4,11	1,11	
27	1,37	0,95	1,90	0,99	2,43	1,02	2,99	1,06	3,71	1,08	4,02	1,14	

Symbols

- AFR: Air flow rate [m<sup>3</sup>/min]
- BF: Bypass factor
- EWB: Entering wet-bulb temperature (°C WB)
- EDB: Entering dry-bulb temperature (°C DB)
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the  mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
6. The air flow rate and bypass factor are mentioned in the table.

3D122104A

### FTXM50N / RZAG50A

### FTXM50R / RZAG50A

Cooling · 50· Hz · 220 - 240· V

AFR	16,1
BF	0,13

Indoor		Outdoor temperature [°C DB]																	
EWB	WDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	5,12	3,70	0,96	4,89	3,59	1,05	4,66	3,52	1,14	4,56	3,49	1,18	4,42	3,40	1,24	4,19	3,23	1,33
16	22	5,35	3,55	0,96	5,12	3,45	1,06	4,89	3,36	1,15	4,79	3,33	1,19	4,65	3,28	1,24	4,42	3,21	1,33
18	25	5,58	3,69	0,97	5,35	3,61	1,06	5,12	3,54	1,15	5,02	3,51	1,19	4,88	3,48	1,25	4,65	3,43	1,34
19	27	5,70	3,93	0,97	5,47	3,88	1,07	5,23	3,83	1,16	5,14	3,82	1,19	5,00	3,81	1,25	4,77	3,70	1,34
22	30	6,04	3,72	0,98	5,81	3,65	1,07	5,58	3,58	1,17	5,49	3,56	1,20	5,35	3,43	1,26	5,11	3,39	1,35
24	32	6,27	3,60	0,99	6,04	3,55	1,08	5,81	3,45	1,17	5,72	3,41	1,21	5,58	3,35	1,26	5,34	3,31	1,36

Heating · 50· Hz · 220 - 240· V

AFR	17,1
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Indoor		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	15	3,87	1,28	4,40	1,32	4,82	1,36	5,23	1,40	6,21	1,45	6,53	1,47
20	3,66	1,34	4,19	1,37	4,62	1,41	5,06	1,45	6,00	1,50	6,32	1,52	
22	3,58	1,36	4,11	1,39	4,54	1,43	4,97	1,47	5,92	1,53	6,23	1,54	
24	3,49	1,38	4,03	1,41	4,46	1,45	4,89	1,49	5,83	1,54	6,15	1,56	
25	3,45	1,39	3,98	1,42	4,41	1,46	4,83	1,50	5,79	1,55	6,11	1,57	
27	3,37	1,41	3,90	1,45	4,32	1,48	4,74	1,52	5,71	1,56	6,02	1,60	

Symbols

- AFR: Air flow rate [m<sup>3</sup>/min]
- BF: Bypass factor
- EWB: Entering wet-bulb temperature (°C WB)
- EDB: Entering dry-bulb temperature (°C DB)
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the  mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
6. The air flow rate and bypass factor are mentioned in the table.

3D122106A

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FTXM60N / RZAG60A FTXM60R / RZAG60A

Cooling -50 Hz -220 -240 V

AFR	17,1
BF	0,17

Indoor		Outdoor temperature [°C DB]																	
EWB	WDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14	20	6,12	4,35	1,28	5,83	4,25	1,44	5,59	4,16	1,57	5,48	4,11	1,62	5,31	4,06	1,70	5,03	3,97	1,82
16	22	6,42	4,21	1,32	6,14	4,09	1,45	5,86	3,98	1,58	5,75	3,93	1,63	5,59	3,87	1,70	5,31	3,78	1,83
18	25	6,70	4,37	1,33	6,42	4,26	1,46	6,14	4,17	1,58	6,03	4,14	1,63	5,86	4,09	1,71	5,58	4,02	1,84
19	27	6,84	4,63	1,33	6,56	4,55	1,46	6,28	4,49	1,59	6,17	4,47	1,64	6,00	4,44	1,71	5,72	4,42	1,84
22	30	7,25	4,26	1,35	6,97	4,17	1,47	6,69	4,09	1,60	6,58	4,06	1,65	6,41	4,02	1,73	6,14	3,97	1,85
24	32	7,53	4,02	1,35	7,25	3,93	1,48	6,97	3,85	1,61	6,86	3,82	1,66	6,69	3,77	1,73	6,41	3,71	1,86

Heating -50 Hz -220 -240 V

AFR	17,7
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Indoor		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15	4,87	1,72	5,40	1,76	6,17	1,80	6,46	1,83	7,21	1,89	7,53	1,91	
20	4,66	1,77	5,19	1,81	6,00	1,85	6,28	1,89	7,00	1,94	7,32	1,96	
22	4,58	1,79	5,11	1,83	5,96	1,87	6,24	1,91	6,92	1,97	7,23	1,98	
24	4,49	1,82	5,03	1,85	5,90	1,89	6,17	1,93	6,83	1,99	7,15	2,00	
25	4,45	1,83	4,98	1,86	5,87	1,90	6,14	1,94	6,79	2,00	7,11	2,01	
27	4,37	1,85	4,90	1,88	5,79	1,92	6,06	1,96	6,71	2,02	7,02	2,03	

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: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the  mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
- The air flow rate and bypass factor are mentioned in the table.

3D122108A

### FHA35A98 / RZAG35A

FHA35AVEB99 + RZAG35A2V1B  
FHA35AVEB98 + RZAG35A2V1B

Cooling 50 Hz 220 -240 V

AFR	14,0
BF	0,16

Indoor temperature		Outdoor temperature [°C DB]																	
[°C WB]	[°C DB]	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20,0	3,59	2,96	0,58	3,42	2,88	0,64	3,26	2,80	0,70	3,19	2,77	0,72	3,10	2,73	0,75	2,93	2,66	0,81
16,0	22,0	3,75	2,91	0,59	3,58	2,84	0,64	3,42	2,77	0,70	3,36	2,74	0,72	3,26	2,70	0,75	3,10	2,63	0,81
18,0	25,0	3,91	3,09	0,59	3,75	3,02	0,65	3,58	2,96	0,70	3,52	2,93	0,72	3,42	2,89	0,76	3,26	2,83	0,81
19,0	27,0	3,99	3,30	0,59	3,83	3,23	0,65	3,66	3,17	0,70	3,60	3,14	0,73	3,50	3,11	0,76	3,34	3,04	0,82
22,0	30,0	4,23	3,19	0,60	4,07	3,14	0,65	3,90	3,08	0,71	3,84	3,06	0,73	3,74	3,03	0,77	3,58	2,97	0,82
24,0	32,0	4,39	3,12	0,60	4,23	3,07	0,66	4,07	3,02	0,71	4,00	3,00	0,73	3,90	2,97	0,77	3,74	2,92	0,82

Heating 50 Hz 220 -240 V

AFR	14,0
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Indoor temperature		Outdoor temperature [°C WB]											
[°C DB]	[°C WB]	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	1,90	0,79	2,29	0,83	2,67	0,87	3,06	0,91	4,14	0,95	4,50	0,99	
20,0	1,79	0,81	2,17	0,85	2,56	0,89	2,94	0,93	4,00	0,98	4,36	1,01	
22,0	1,74	0,82	2,12	0,86	2,51	0,90	2,89	0,94	3,94	0,98	4,31	1,02	
24,0	1,69	0,82	2,08	0,86	2,46	0,91	2,85	0,95	3,89	0,99	4,25	1,03	
25,0	1,67	0,83	2,05	0,87	2,44	0,91	2,82	0,95	3,86	1,00	4,22	1,03	
27,0	1,62	0,84	2,01	0,88	2,39	0,92	2,77	0,96	3,81	1,01	4,17	1,04	

Symbols

- AFR: Air flow rate [m³/min]
- BF: Bypass factor
- [°C WB]: Entering wet-bulb temperature [°C WB]
- [°C DB]: Entering dry-bulb temperature [°C DB]
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Nominal capacity
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
- The air flow rate and bypass factor are mentioned in the table.

3D120386B

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

5

### FHA50A98 / RZAG50A

FHA50AVEB99 + RZAG50A2V1B  
FHA50AVEB98 + RZAG50A2V1B

Cooling 50 Hz 220 - 240 V

AFR	15,0
BF	0,17

Indoor temperature		Outdoor temperature [°C DB]																	
[°C WB]	[°C DB]	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,11	3,77	0,93	4,89	3,66	1,03	4,66	3,55	1,12	4,56	3,50	1,15	4,42	3,43	1,21	4,19	3,32	1,30
16,0	22	5,35	3,71	0,94	5,12	3,60	1,03	4,89	3,49	1,12	4,79	3,45	1,16	4,65	3,39	1,21	4,42	3,28	1,30
18,0	25	5,58	3,89	0,95	5,35	3,78	1,04	5,12	3,68	1,13	5,02	3,64	1,16	4,88	3,58	1,22	4,65	3,48	1,31
19,0	27	5,70	4,10	0,95	5,47	4,00	1,04	5,23	3,90	1,13	5,14	3,86	1,16	5,00	3,80	1,22	4,77	3,71	1,31
22,0	30	6,04	3,95	0,96	5,81	3,86	1,05	5,58	3,77	1,14	5,49	3,74	1,17	5,35	3,69	1,23	5,11	3,60	1,32
24,0	32	6,27	3,84	0,96	6,04	3,76	1,05	5,81	3,68	1,14	5,72	3,65	1,18	5,58	3,61	1,23	5,34	3,53	1,32

Heating 50 Hz 220 - 240 V

AFR	15,0
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
[°C DB]		-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		2,76	1,26	3,32	1,32	3,88	1,39	4,43	1,45	6,00	1,53	6,52	1,58
20,0		2,59	1,29	3,15	1,36	3,71	1,42	4,26	1,49	5,80	1,56	6,32	1,61
22,0		2,52	1,31	3,08	1,37	3,64	1,44	4,19	1,50	5,72	1,58	6,24	1,63
24,0		2,46	1,32	3,01	1,39	3,57	1,45	4,13	1,51	5,64	1,59	6,16	1,64
25,0		2,42	1,33	2,98	1,39	3,54	1,46	4,09	1,52	5,60	1,60	6,12	1,65
27,0		2,35	1,34	2,91	1,41	3,47	1,47	4,02	1,54	5,52	1,61	6,04	1,66

Symbols

- AFR: Air flow rate [m³/min]
- BF: Bypass factor
- [°C WB]: Entering wet-bulb temperature [°C WB]
- [°C DB]: Entering dry-bulb temperature [°C DB]
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- |  |
|--|
|  |
|--|

 = Nominal capacity
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
- The air flow rate and bypass factor are mentioned in the table.

3D120387B

### FHA60A98 / RZAG60A

FHA60AVEB99 + RZAG60A2V1B  
FHA60AVEB98 + RZAG60A2V1B

Cooling 50 Hz 220 - 240 V

AFR	19,5
BF	0,2

Indoor temperature		Outdoor temperature [°C DB]																		
°C	EWB	EDB	20			25			30			32			35			40		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	6,15	4,60	1,18	5,87	4,46	1,29	5,59	4,32	1,41	5,48	4,27	1,45	5,31	4,19	1,52	5,03	4,05	1,63	
16,0	22	6,42	4,52	1,19	6,14	4,39	1,30	5,86	4,26	1,41	5,75	4,21	1,46	5,59	4,13	1,53	5,31	4,01	1,64	
18,0	25	6,70	4,74	1,19	6,42	4,62	1,31	6,14	4,50	1,42	6,03	4,45	1,47	5,86	4,38	1,53	5,58	4,26	1,65	
19,0	27	6,84	5,00	1,20	6,56	4,89	1,31	6,28	4,77	1,42	6,17	4,72	1,47	6,00	4,66	1,54	5,72	4,54	1,65	
22,0	30	7,25	4,83	1,21	6,97	4,72	1,32	6,69	4,62	1,43	6,58	4,58	1,48	6,41	4,52	1,55	6,14	4,42	1,66	
24,0	32	7,53	4,70	1,21	7,25	4,61	1,33	6,97	4,51	1,44	6,86	4,48	1,49	6,69	4,42	1,56	6,41	4,33	1,67	

Heating 50 Hz 220 - 240 V

AFR	19,5
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
°C	EDB	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		3,33	1,66	4,01	1,74	4,68	1,83	5,35	1,91	7,24	2,01	7,87	2,08
20,0		3,13	1,70	3,80	1,79	4,47	1,87	5,14	1,96	7,00	2,06	7,63	2,13
22,0		3,05	1,72	3,72	1,81	4,39	1,89	5,06	1,98	6,90	2,08	7,54	2,15
24,0		2,96	1,74	3,64	1,82	4,31	1,91	4,98	1,99	6,81	2,10	7,44	2,16
25,0		2,92	1,75	3,59	1,83	4,27	1,92	4,94	2,00	6,76	2,11	7,39	2,17
27,0		2,84	1,77	3,51	1,85	4,18	1,94	4,86	2,02	6,66	2,12	7,29	2,19

Symbols

- AFR: Air flow rate [m³/min]
- BF: Bypass factor
- [°C WB]: Entering wet-bulb temperature [°C WB]
- [°C DB]: Entering dry-bulb temperature [°C DB]
- TC: Total capacity [kW]
- SHC: Sensible heat capacity [kW]
- PI: Power input [kW]

Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- |  |
|--|
|  |
|--|

 = Nominal capacity
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: ·5· m  
Level difference: ·0· m
- The air flow rate and bypass factor are mentioned in the table.

3D120388B

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FNA35A9 / RZAG35A

Cooling 50 Hz 220 - 240 V

AFR	8,7
BF	0,16

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	3,11	2,22	0,65	3,11	2,22	0,73	3,11	2,22	0,81	3,11	2,22	0,84	3,10	2,22	0,89	2,93	2,18	0,95
16,0	22	3,75	2,48	0,69	3,58	2,39	0,76	3,42	2,31	0,82	3,36	2,28	0,85	3,26	2,24	0,89	3,10	2,16	0,96
18,0	25	3,91	2,57	0,70	3,75	2,49	0,76	3,58	2,42	0,83	3,52	2,39	0,86	3,42	2,34	0,90	3,26	2,27	0,96
19,0	27	3,99	2,69	0,70	3,83	2,61	0,76	3,66	2,54	0,83	3,60	2,51	0,86	3,50	2,47	0,90	3,34	2,40	0,96
22,0	30	4,23	2,58	0,70	4,07	2,52	0,77	3,90	2,45	0,84	3,84	2,43	0,86	3,74	2,39	0,90	3,58	2,33	0,97
24,0	32	4,39	2,51	0,71	4,23	2,45	0,77	4,07	2,39	0,84	4,00	2,37	0,87	3,90	2,33	0,91	3,74	2,28	0,97

Heating 50 Hz 220 - 240 V

AFR	8,7
-----	-----

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		1,90	0,92	2,29	0,97	2,67	1,01	3,06	1,06	4,14	1,12	4,50	1,15
20,0		1,79	0,94	2,17	0,99	2,56	1,04	2,94	1,09	4,00	1,14	4,36	1,18
22,0		1,74	0,95	2,12	1,00	2,51	1,05	2,89	1,10	3,94	1,15	4,31	1,19
24,0		1,69	0,97	2,08	1,01	2,46	1,06	2,85	1,11	3,89	1,16	4,25	1,20
25,0		1,67	0,97	2,05	1,02	2,44	1,06	2,82	1,11	3,86	1,17	4,22	1,21
27,0		1,62	0,98	2,01	1,03	2,39	1,07	2,77	1,12	3,81	1,18	4,17	1,22

**Symbols**

- AFR : Air flow rate [m<sup>3</sup>/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature (°C WB)
- EDB : Entering dry-bulb temperature (°C DB)
- TC : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
The air flow rate and bypass factor are mentioned in the table.
- Level difference: 0m

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### FNA50A9 / RZAG50A

Cooling 50 Hz 220 - 240 V

AFR	16,0
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
°C	°C	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,12	3,94	1,01	4,89	3,83	1,11	4,66	3,71	1,20	4,56	3,67	1,24	4,42	3,60	1,30	4,19	3,49	1,40
16,0	22	5,35	3,87	1,01	5,12	3,77	1,11	4,89	3,66	1,21	4,79	3,62	1,25	4,65	3,56	1,31	4,42	3,45	1,40
18,0	25	5,58	4,08	1,02	5,35	3,98	1,12	5,12	3,88	1,21	5,02	3,84	1,25	4,88	3,78	1,31	4,65	3,69	1,41
19,0	27	5,70	4,32	1,02	5,47	4,22	1,12	5,23	4,13	1,22	5,14	4,09	1,26	5,00	4,04	1,32	4,77	3,94	1,41
22,0	30	6,04	4,17	1,03	5,81	4,09	1,13	5,58	4,00	1,23	5,49	3,97	1,27	5,35	3,92	1,32	5,11	3,84	1,42
24,0	32	6,27	4,07	1,04	6,04	3,99	1,14	5,81	3,92	1,23	5,72	3,89	1,27	5,58	3,84	1,33	5,34	3,77	1,43

Heating 50 Hz 220 - 240 V

AFR	16,0
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB		-15		-10		-5		0		6		10	
°C		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0		2,38	1,18	2,86	1,24	3,34	1,30	3,82	1,36	5,17	1,44	5,62	1,49
20,0		2,23	1,22	2,71	1,28	3,19	1,34	3,67	1,40	5,00	1,47	5,45	1,52
22,0		2,18	1,23	2,66	1,29	3,14	1,35	3,62	1,41	4,93	1,48	5,38	1,53
24,0		2,12	1,24	2,60	1,30	3,08	1,36	3,56	1,42	4,86	1,50	5,31	1,54
25,0		2,09	1,25	2,57	1,31	3,05	1,37	3,53	1,43	4,83	1,50	5,28	1,55
27,0		2,03	1,26	2,51	1,32	2,99	1,38	3,47	1,44	4,76	1,52	5,21	1,56

**Symbols**

- AFR : Air flow rate [m<sup>3</sup>/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature (°C WB)
- EDB : Entering dry-bulb temperature (°C DB)
- TC : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

**Notes**

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
- The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
- In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
- The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
Level difference: 0m
- The air flow rate and bypass factor are mentioned in the table.

3D120390

# 5 Capacity tables

## 5 - 2 Cooling/Heating Capacity Tables

### FNA60A9 / RZAG60A

Cooling 50 Hz 220 - 240 V

AFR	16,0
BF	0,12

Indoor temperature		Outdoor temperature [°C DB]																	
EWB	EDB	20			25			30			32			35			40		
		TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
14,0	20	5,78	4,27	1,32	5,78	4,27	1,48	5,59	4,17	1,61	5,48	4,11	1,67	5,31	4,03	1,74	5,03	3,89	1,87
16,0	22	6,42	4,38	1,36	6,14	4,24	1,49	5,86	4,11	1,62	5,75	4,06	1,67	5,59	3,98	1,75	5,31	3,85	1,88
18,0	25	6,70	4,57	1,37	6,42	4,44	1,50	6,14	4,32	1,63	6,03	4,27	1,68	5,86	4,20	1,76	5,58	4,08	1,89
19,0	27	6,84	4,80	1,37	6,56	4,68	1,50	6,28	4,56	1,63	6,17	4,51	1,69	6,00	4,44	1,76	5,72	4,33	1,89
22,0	30	7,25	4,62	1,38	6,97	4,52	1,51	6,69	4,41	1,65	6,58	4,37	1,70	6,41	4,31	1,78	6,14	4,20	1,91
24,0	32	7,53	4,50	1,39	7,25	4,40	1,52	6,97	4,30	1,65	6,86	4,26	1,71	6,69	4,21	1,78	6,41	4,11	1,91

Heating 50 Hz 220 - 240 V

AFR	16,0
-----	------

Indoor temperature		Outdoor temperature [°C WB]											
EDB	°C	-15		-10		-5		0		6		10	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
15,0	20	3,39	1,71	4,08	1,79	4,76	1,88	5,44	1,97	7,24	2,07	7,87	2,14
20,0	22	3,18	1,75	3,87	1,84	4,55	1,93	5,23	2,02	7,00	2,12	7,63	2,19
22,0	25	3,10	1,77	3,78	1,86	4,47	1,95	5,15	2,04	6,90	2,14	7,54	2,21
24,0	27	3,02	1,79	3,70	1,88	4,38	1,97	5,07	2,05	6,81	2,16	7,44	2,23
25,0	30	2,97	1,80	3,66	1,89	4,34	1,98	5,03	2,06	6,76	2,17	7,39	2,24
27,0	32	2,89	1,82	3,57	1,91	4,26	2,00	4,94	2,08	6,66	2,19	7,29	2,26

**Symbols**

- AFR : Air flow rate [m<sup>3</sup>/min]
- BF : Bypass factor
- EWB : Entering wet-bulb temperature (°C WB)
- EDB : Entering dry-bulb temperature (°C DB)
- TC : Total capacity [kW]
- SHC : Sensible heat capacity [kW]
- PI : Power input [kW]

**Notes**

1. The ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. On the figure the □ mark shows the rated capacity and rated coefficient of the power input.
3. The total capacity, power input and sensible heat capacity must be calculated by interpolation, using the figures in the table (figures not in the table may not be used in the calculation).
4. In case the sensible heat capacity is not mentioned in the table, please calculate it using an approximation between two values in direct proportion.
5. The capacities are based on the following conditions:  
Corresponding refrigerant piping length: 5 m  
Level difference: 0m
6. The air flow rate and bypass factor are mentioned in the table.

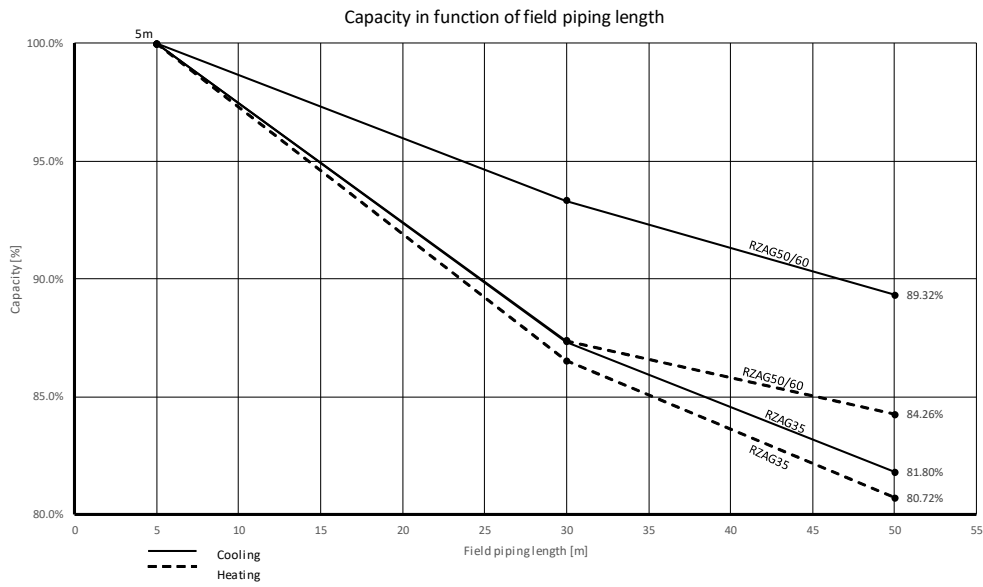
3D120391



# 5 Capacity tables

## 5 - 3 Capacity Correction Factor

RZAG-A



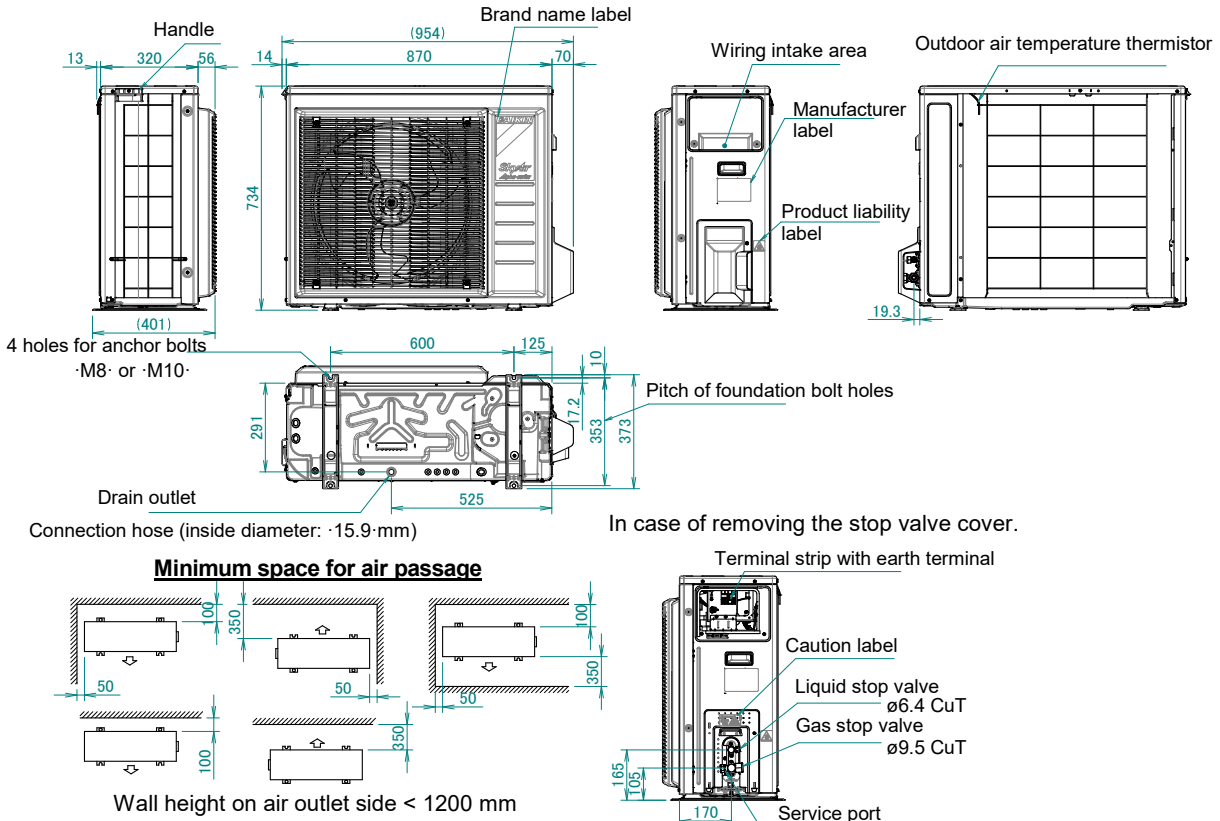
3D121942

# 6 Dimensional drawings

## 6 - 1 Dimensional Drawings

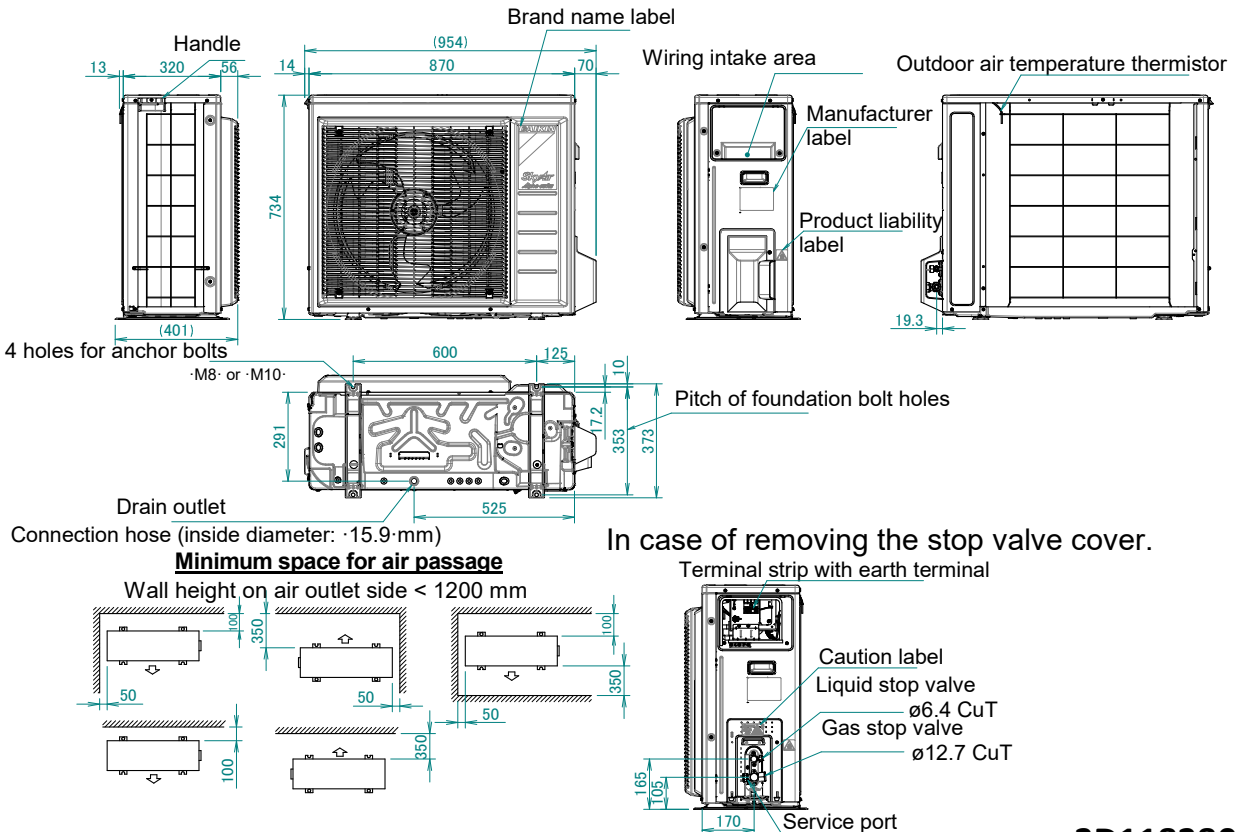
6

### RZAG35A



**3D118381A**

### RZAG50-60A

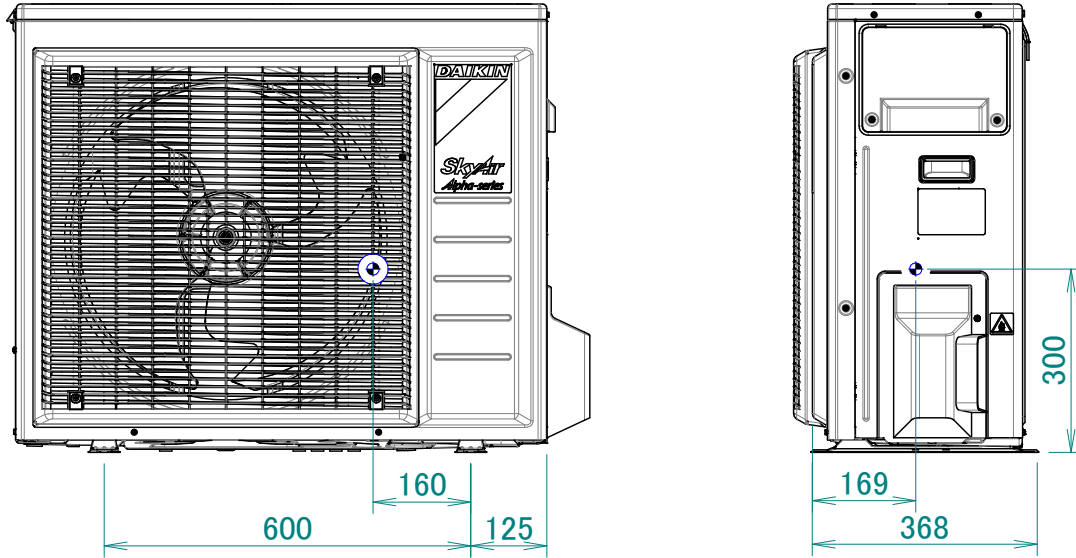


**3D118380A**

# 7 Centre of gravity

## 7 - 1 Centre of Gravity

### RZAG35-60A

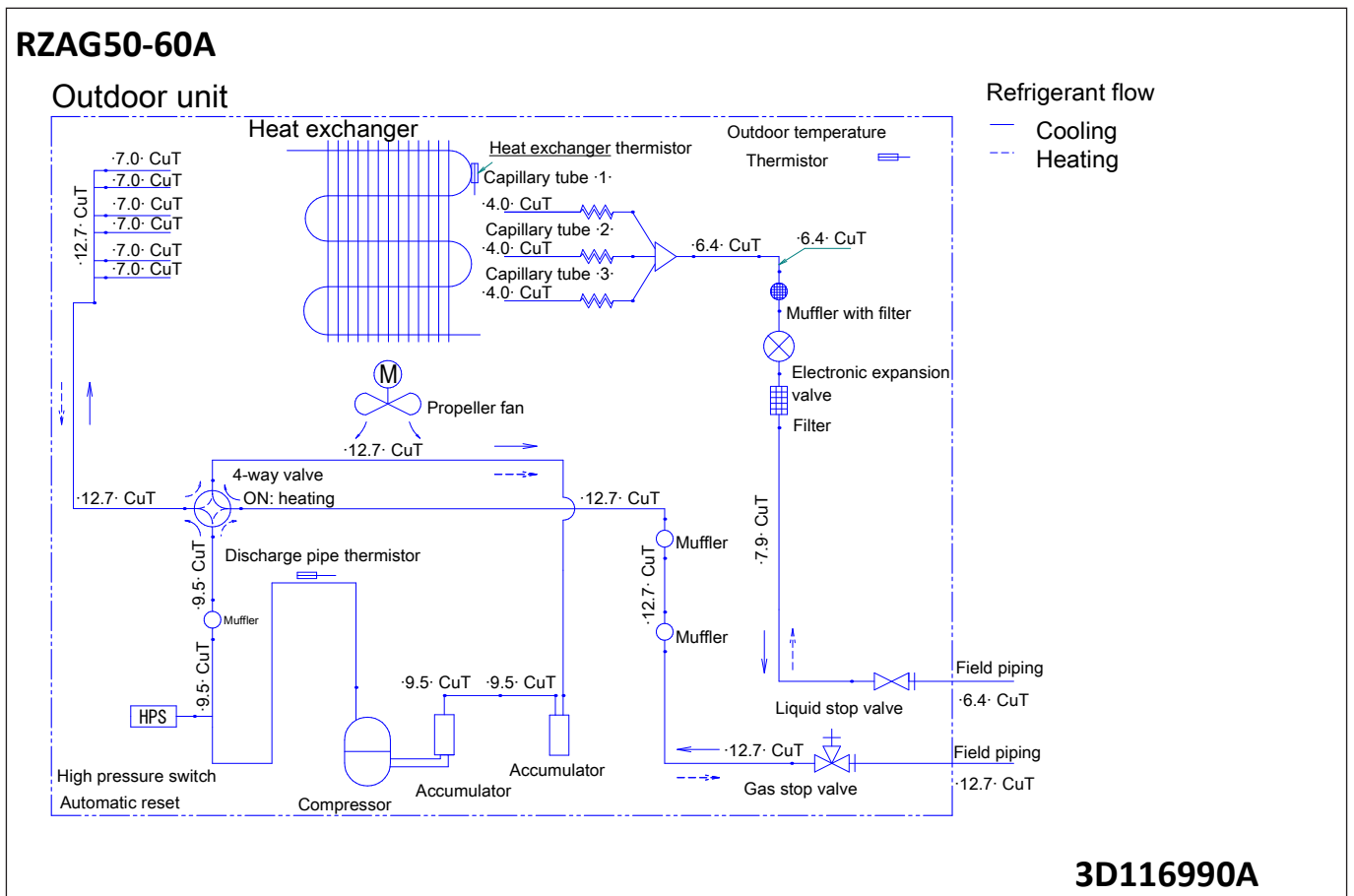
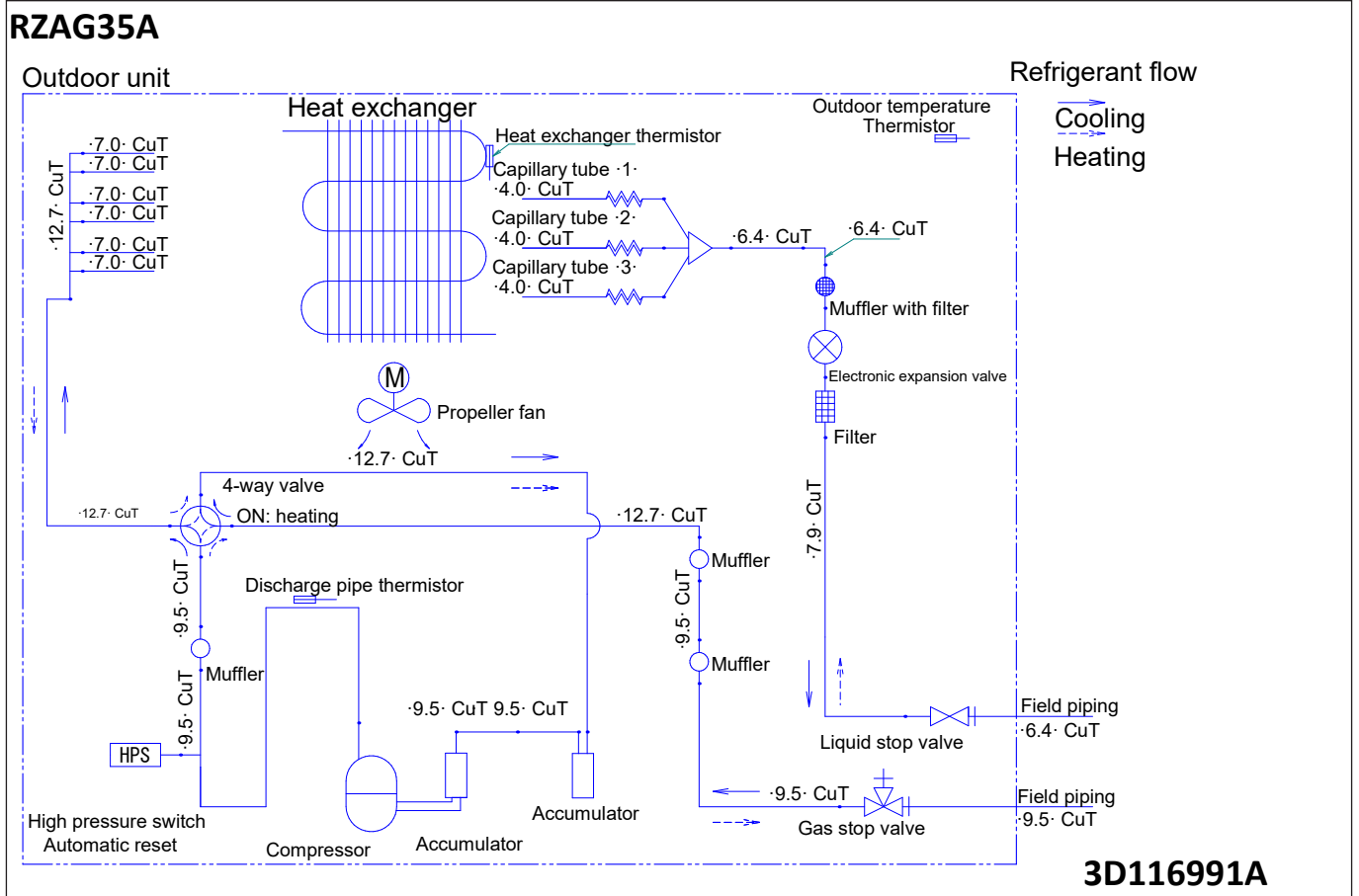


4D118389

# 8 Piping diagrams

## 8 - 1 Piping Diagrams

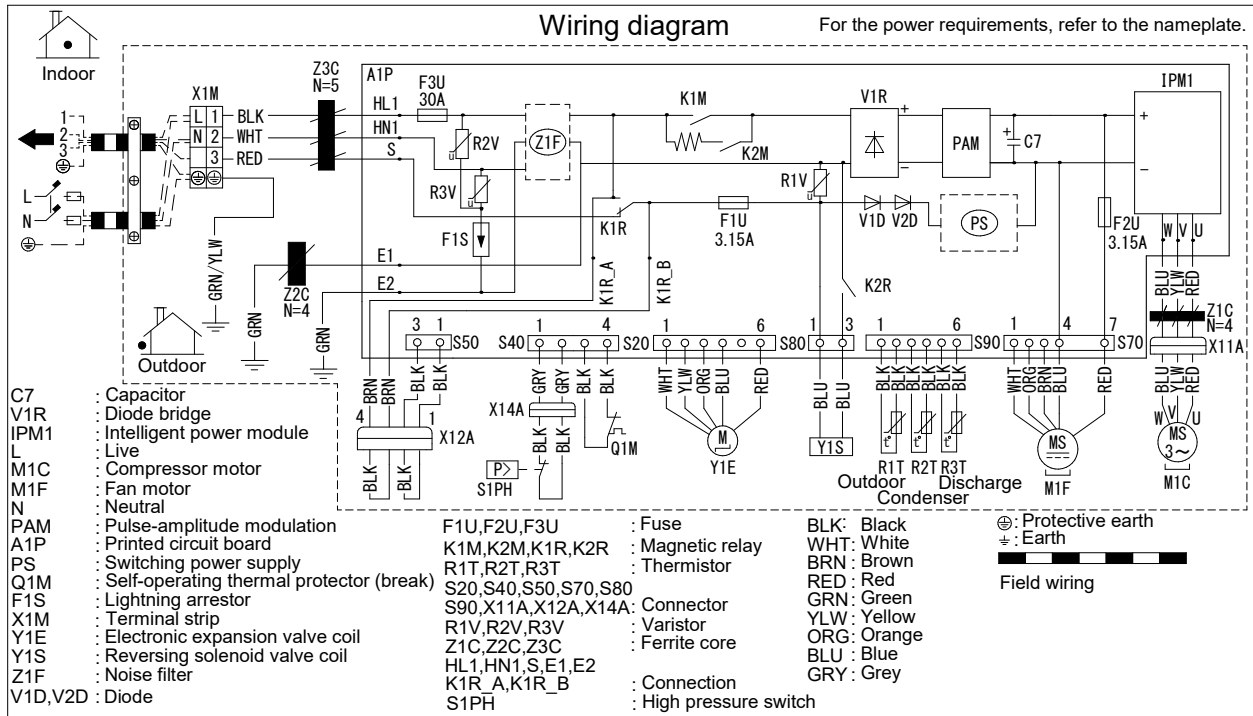
8



# 9 Wiring diagrams

## 9 - 1 Wiring Diagrams - Single Phase

### RZAG35-60A



**NOTES:**

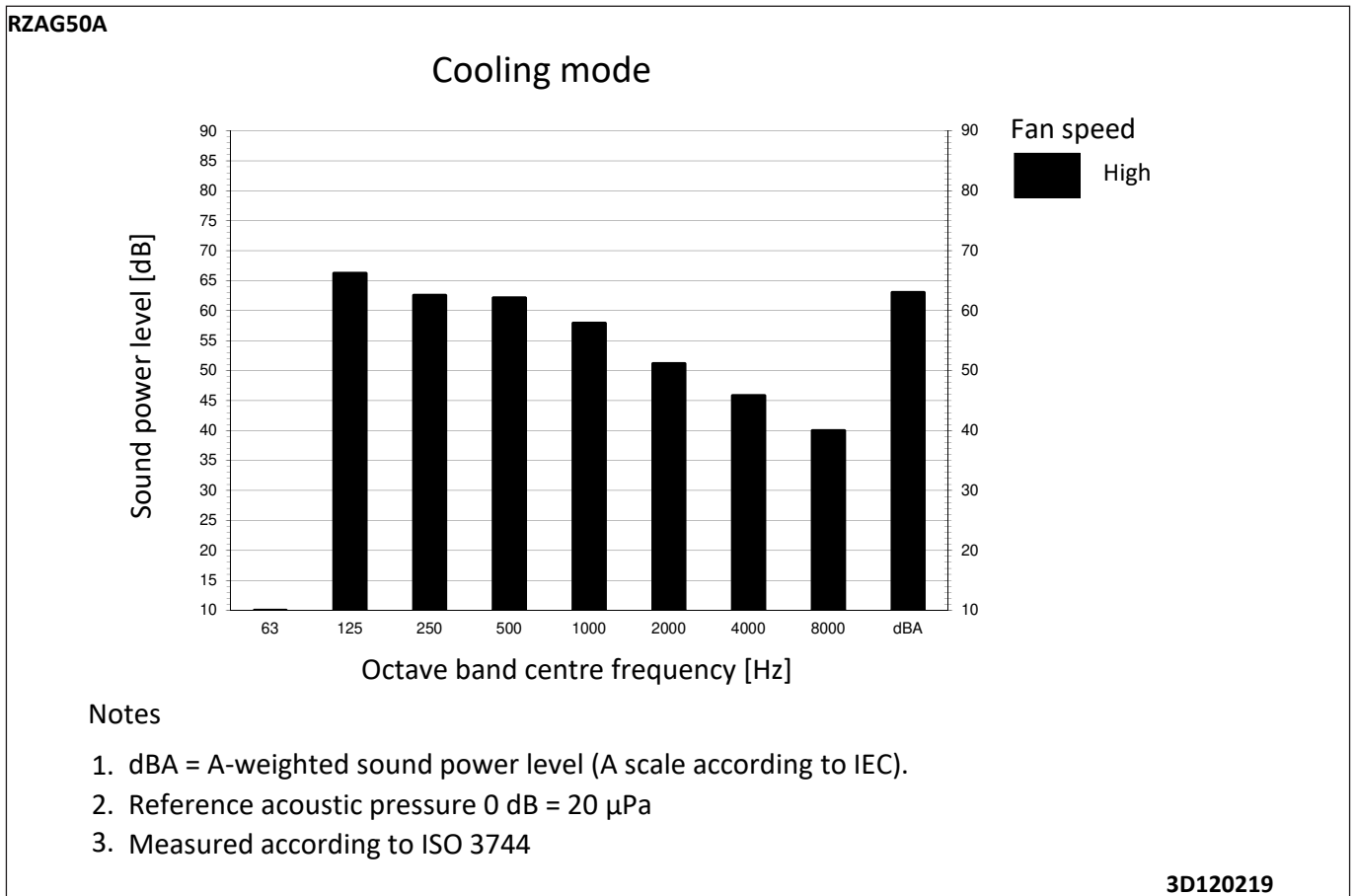
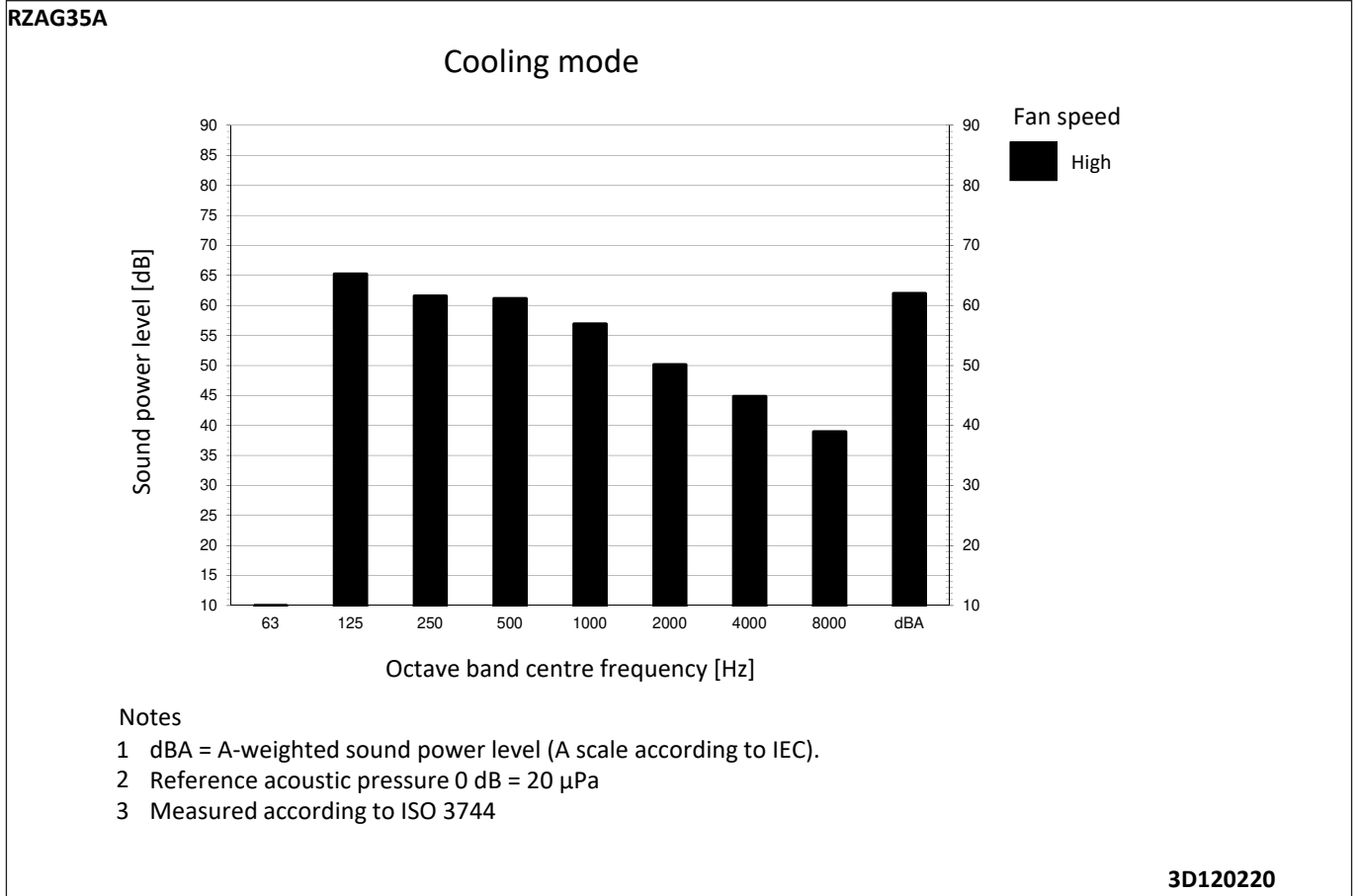
1. Size: length 105 x width 185.
2. Refer to purchasing specification AS303002 unless otherwise specified.

**3D117016**

# 10 Sound data

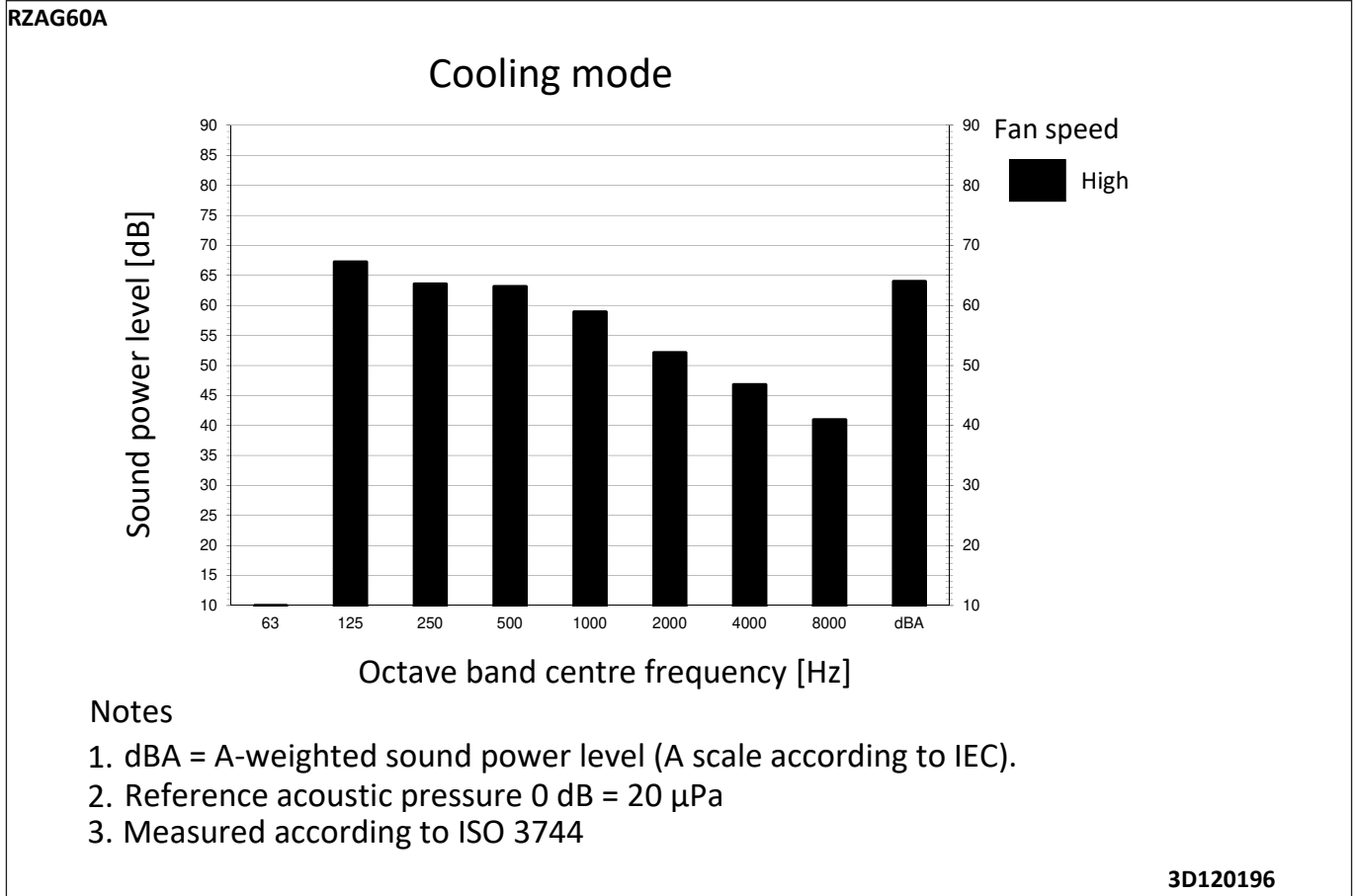
## 10 - 1 Sound Power Spectrum

10



# 10 Sound data

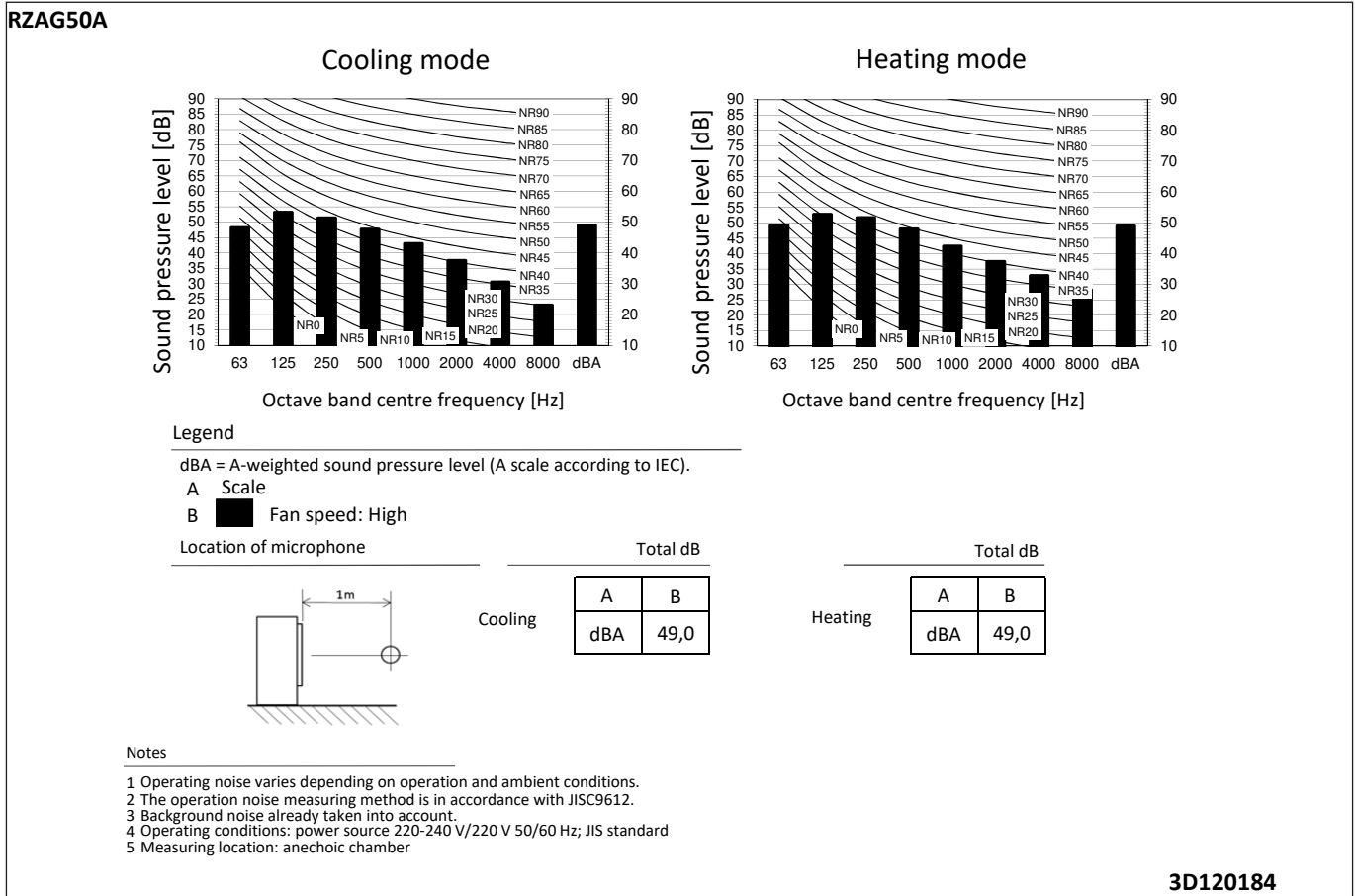
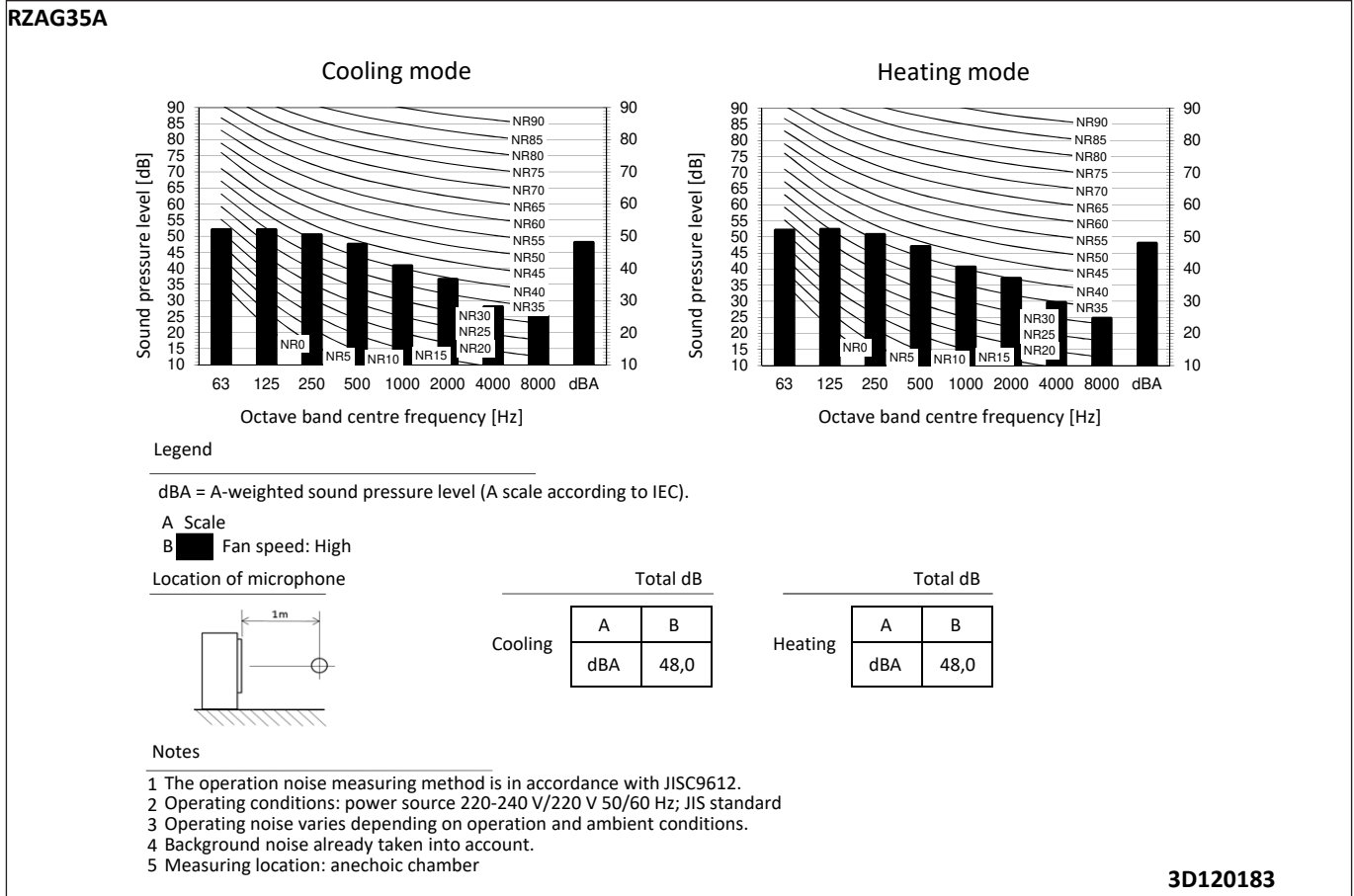
## 10 - 1 Sound Power Spectrum



# 10 Sound data

## 10 - 2 Sound Pressure Spectrum

10

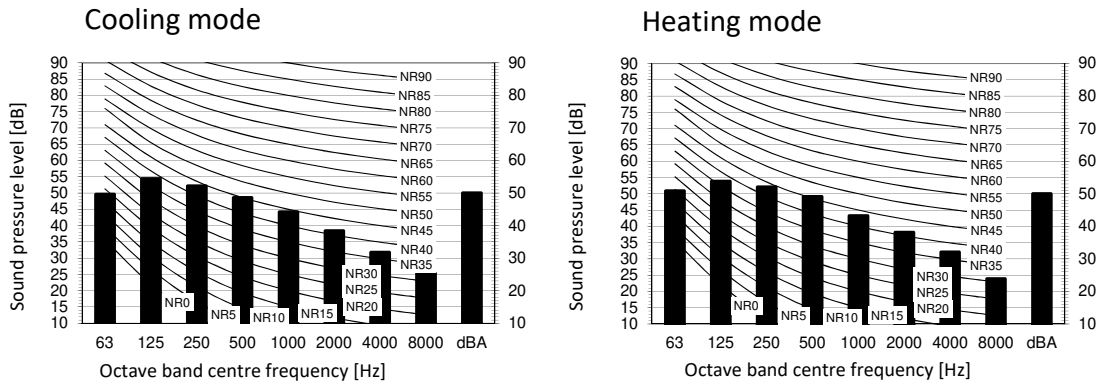




# 10 Sound data

## 10 - 2 Sound Pressure Spectrum

RZAG60A

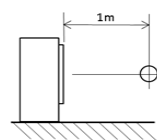


**Legend**

dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B  Fan speed: High

**Location of microphone**



		Total dB		Total dB	
		A	B	A	B
	Cooling	dBA	50,1	dBA	50,1
	Heating	dBA	50,1	dBA	50,1

- Notes**
- 1 Background noise already taken into account.
  - 2 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
  - 3 Operating noise varies depending on operation and ambient conditions.
  - 4 The operation noise measuring method is in accordance with JISC9612.
  - 5 Measuring location: anechoic chamber

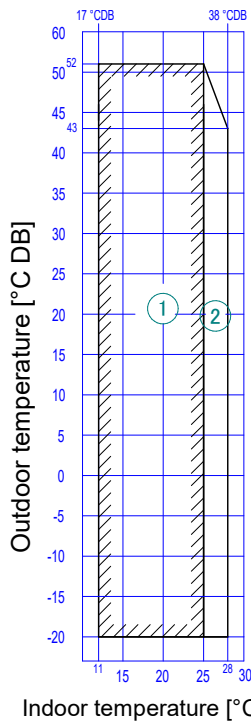
3D120185

# 11 Operation range

## 11 - 1 Operation Range

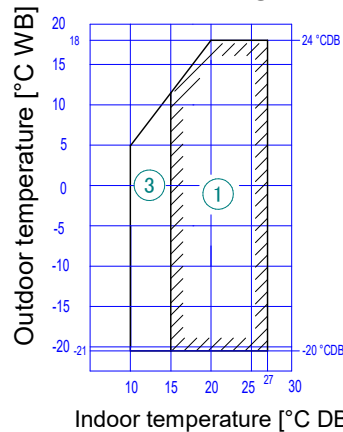
11

### RZAG35-60A Cooling



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

### Heating

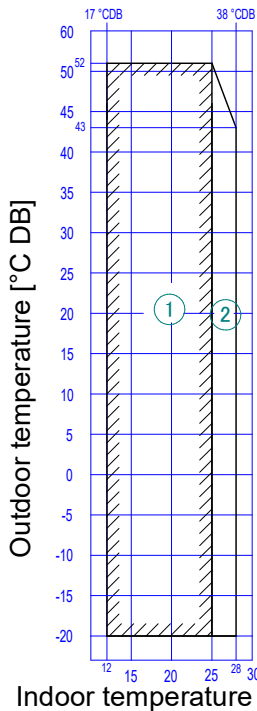


Notes

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.

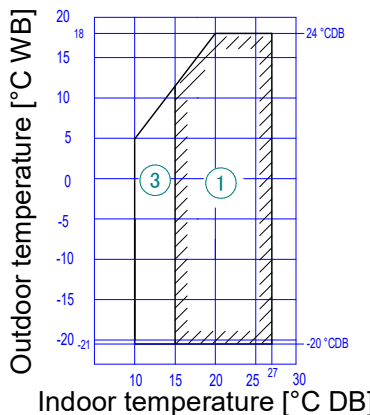
**3D120009**

### RZAG35-60A Cooling



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

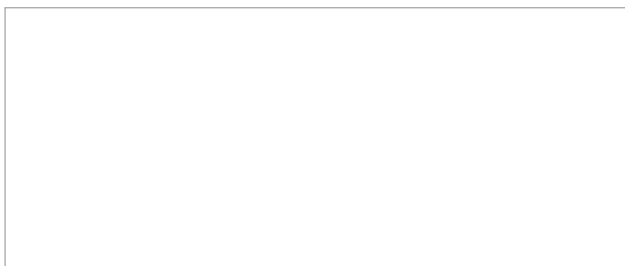
### Heating



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.

**3D120010**



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03/2023



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