

VRV 5 heat recovery Air Conditioning Technical Data REYA-A

REYA8A7Y1B
REYA10A7Y1B
REYA12A7Y1B
REYA14A7Y1B
REYA16A7Y1B
REYA18A7Y1B
REYA20A7Y1B
REYA10A7Y1B.
REYA13A7Y1B
REYA16A7Y1B.
REYA18A7Y1B.
REYA20A7Y1B.
REYA22A7Y1B
REYA24A7Y1B
REYA26A7Y1B
REYA28A7Y1B
REMA5A7Y1B



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1 Features

1 - 1 REYA-A

The sustainability champion

- › Reduced CO2 equivalent thanks to the use of lower GWP R-32 refrigerant and lower refrigerant charge
- › Top sustainability over the entire lifecycle, thanks to market leading real-life seasonal efficiency
- › "Free" heating provided by transferring heat from areas requiring cooling to areas requiring heating
- › Tackle small room applications without any additional measures, thanks to Shirodo technology
- › Specially designed indoor units for R-32, ensuring low sound and maximum efficiency
- › The perfect personal comfort for guests/tenants via simultaneous cooling and heating
- › Incorporates VRV standards & technologies: Variable Refrigerant Temperature, continuous heating, VRV configurator, 7 segment display and full inverter compressors, 4-side heat exchanger, refrigerant cooled PCB, new DC fan motor



Variable refrigerant temperature

2 Specifications

2 - 1 Specifications

Technical Specifications			REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20A
Recommended combination			4 x FXFA50A2VEB	4 x FXFA63A2VEB	6 x FXFA50A2VEB	1 x FXFA50A2VEB + 5 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	3 x FXFA50A2VEB + 5 x FXFA63A2VEB	8 x FXFA63A2VEB
Recommended combination 2			4 x FXSA50A2VEB	4 x FXSA63A2VEB	6 x FXSA50A2VEB	1 x FXSA50A2VEB + 5 x FXSA63A2VEB	4 x FXSA63A2VEB + 2 x FXSA80A2VEB	3 x FXSA50A2VEB + 5 x FXSA63A2VEB	8 x FXSA63A2VEB
Recommended combination 3			4 x FXMA50A5VEB	4 x FXMA63A5VEB	6 x FXMA50A5VEB	1 x FXMA50A5VEB + 5 x FXMA63A5VEB	4 x FXMA63A5VEB + 2 x FXMA80A5VEB	3 x FXMA50A5VEB + 5 x FXMA63A5VEB	8 x FXMA63A5VEB
Cooling capacity	Prated,c	kW	22.4 (1)	28.0 (1)	33.5 (1)	40.0 (1)	45.0 (1)	50.4 (1)	56.0 (1)
Heating capacity	Nom. 6°CWB	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)	50.4 (2)	56.0 (2)
	Prated,h	kW	22.4 (2)	28.0 (2)	33.5 (2)	40.0 (2)	45.0 (2)	50.4 (2)	56.0 (2)
	Max. 6°CWB	kW	25.0 (2)	31.5 (2)	37.5 (2)	45.0 (2)	50.0 (2)	56.5 (2)	63.0 (2)
COP at nom. capacity	6°CWB	kW/kW	3.83 (2)	3.45 (2)	3.46 (2)	3.57 (2)	3.52 (2)	3.66 (2)	3.37 (2)
SCOP			4.11	4.33	4.49	4.28	4.26	4.39	4.14
SCOP recommended combination 2			4.10	4.34	4.56	4.33			4.11
SCOP recommended combination 3			4.15	4.40	4.56	4.33	4.32	4.39	4.14
SEER			7.35	7.14	7.21	7.73	7.10	7.09	6.63
SEER recommended combination 2			7.07	6.87	6.90	7.53	7.01	6.94	6.57
SEER recommended combination 3			7.49	7.15	7.41	7.78	7.15	7.11	6.64
ηs,c			290.8	282.6	285.3	306.1	281.0	280.6	262.2
ηs,c recommended combination 2			279.6	271.7	273.2	298.3	277.4	274.8	259.6
ηs,c recommended combination 3			296.5	283.1	293.4	308.1	283.1	281.3	262.5
ηs,h			161.5	170.2	176.4	168.3	167.5	172.5	162.7
ηs,h recommended combination 2			161.1	170.4	179.5	170.2			161.4
ηs,h recommended combination 3			163.2	172.9	179.5	170.2	169.6	172.7	162.7
Space cooling	A Condition EERd		3.25	3.26	3.24	3.26	3.23	2.73	2.57
	(35°C - 27/19) Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	B Condition EERd		5.23	5.00	4.60	4.92	4.58	4.47	4.42
	(30°C - 27/19) Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	41.3
	C Condition EERd		9.11	8.50	8.45	8.74	8.25	8.15	7.70
	(25°C - 27/19) Pdc	kW	10.6	13.3	15.9	18.9	21.3	23.9	26.5
	D Condition EERd		15.3	14.8	17.7	22.5	16.7	20.7	15.8
	(20°C - 27/19) Pdc	kW	8.13	8.19	8.57	10.9	11.1	12.0	11.6
Space cooling recom- mended combination 2	A Condition EERd		3.23		3.00	3.23	3.06	2.64	2.52
	(35°C - 27/19) Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	B Condition EERd		5.09	4.83	4.54	4.85	4.64	4.43	4.41
	(30°C - 27/19) Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	41.3
	C Condition EERd		8.55	8.06	7.94	8.38	8.11	7.87	7.41
	(25°C - 27/19) Pdc	kW	10.6	13.3	15.9	18.9	21.3	23.9	26.5
	D Condition EERd		14.6	14.1	16.9	21.7	16.5	20.0	16.6
	(20°C - 27/19) Pdc	kW	7.84	7.97	8.20	10.6	10.8	11.6	11.9
Space cooling recom- mended combination 3	A Condition EERd		3.22	3.27	3.23	3.30	3.04	2.66	2.50
	(35°C - 27/19) Pdc	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0
	B Condition EERd		5.31	4.91	4.69	4.93	4.64	4.49	4.41
	(30°C - 27/19) Pdc	kW	16.5	20.6	24.7	29.5	33.2	37.1	41.3
	C Condition EERd		9.41	8.59	8.82	8.84	8.50	8.22	7.71
	(25°C - 27/19) Pdc	kW	10.6	13.3	15.9	18.9	21.3	23.9	26.5
	D Condition EERd		15.7	15.1	18.5	22.4	16.7	20.9	16.4
	(20°C - 27/19) Pdc	kW	8.19	8.13	8.50	10.9	10.7	11.9	11.8
Space heating (Average climate)	TBivalent COPd (declared COP)		2.80	2.28	2.38	2.57	2.53	2.36	2.23
	Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
	Tbiv (bivalent temperature)	°C	-10						
	TOL COPd (declared COP)		2.80	2.28	2.38	2.57	2.53	2.36	2.23
	Pdh (declared heating cap)	kW	13.7	16.0	18.4	20.6	23.2	27.9	31.0
	Tol (temperature operating limit)	°C	-10						
	A Condition COPd (declared COP)		3.06	2.67	2.84	2.94	2.87	2.70	2.60
	(-7°C) Pdh (declared heating cap)	kW	12.1	14.2	16.3	18.2	20.5	24.7	27.4
	B Condition COPd (declared COP)		3.81	4.23	4.15	3.86	3.93	4.19	3.84
	(2°C) Pdh (declared heating cap)	kW	7.38	8.62	9.89	11.1	12.5	15.0	16.7
	C Condition COPd (declared COP)		5.27	5.70	6.32	6.31	6.21	6.22	5.89
	(7°C) Pdh (declared heating cap)	kW	4.76	5.54	6.36	7.13	8.03	9.66	10.7
	D Condition COPd (declared COP)		7.04	7.92	9.14	6.68	6.04	6.85	7.70
	(12°C) Pdh (declared heating cap)	kW	4.51	5.46	5.52	5.15	5.07	6.24	7.34

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Technical Specifications					REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20A	
Space heating (Average climate) recommended combination 2	A Condition (-7°C)	COPd (declared COP)			3.00	2.62	2.83	2.95	2.89	2.62	2.54	
		Pdh (declared heating cap) kW			12.1	14.2	16.3	18.2	20.5	24.7	27.5	
	B Condition (2°C)	COPd (declared COP)			3.80	4.24	4.26	3.89	3.96	4.07	3.79	
		Pdh (declared heating cap) kW			7.45	8.61	9.89	11.1	12.5	15.0	16.7	
	C Condition (7°C)	COPd (declared COP)			5.35	5.79	6.39	6.45	6.41	6.19	5.98	
		Pdh (declared heating cap) kW			4.76	5.54	6.36	7.14	8.04	9.65	10.7	
	D Condition (12°C)	COPd (declared COP)			7.04	7.91	9.39	6.94	6.47	8.15	7.81	
		Pdh (declared heating cap) kW			4.71	5.60	5.80	5.33	5.36	7.68	7.69	
	TBivalent	COPd (declared COP)			2.73	2.32	2.38	2.58	2.54	2.28	2.18	
		Pdh (declared heating cap) kW			13.7	16.0	18.4	20.6	23.2	27.9	31.0	
		Tbiv (bivalent temperature) °C			-10							
	TOL	COPd (declared COP)			2.73	2.32	2.38	2.58	2.54	2.28	2.18	
Pdh (declared heating cap) kW			13.7	16.0	18.4	20.6	23.2	27.9	31.0			
Tol (temperature operating limit) °C			-10									
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	COPd (declared COP)			3.05	2.68	2.85	2.96	2.88	2.73	2.60	
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	Pdh (declared heating cap) kW			12.1	14.2	16.3	18.2	20.5	24.8	27.5	
		COPd (declared COP)			3.86	4.32	4.24	3.89	3.95	4.25	3.88	
	B Condition (2°C)	Pdh (declared heating cap) kW			7.39	8.62	9.89	11.1	12.5	15.0	16.7	
		COPd (declared COP)			5.35	5.80	6.43		6.34	6.39	6.07	
	C Condition (7°C)	Pdh (declared heating cap) kW			4.75	5.55	6.36	7.15	8.03	9.66	10.7	
		COPd (declared COP)			7.14	8.02	9.37	6.84	6.44	5.48	6.15	
	D Condition (12°C)	Pdh (declared heating cap) kW			4.65	5.56	5.67	5.29	5.32	5.80	5.91	
		COPd (declared COP)			2.78	2.29	2.41	2.58	2.54	2.39	2.24	
	TBivalent	Pdh (declared heating cap) kW			13.7	16.0	18.4	20.6	23.2	28.0	31.1	
		Tbiv (bivalent temperature) °C			-10							
		COPd (declared COP)			2.78	2.29	2.41	2.58	2.54	2.39	2.24	
	TOL	Pdh (declared heating cap) kW			13.7	16.0	18.4	20.6	23.2	28.0	31.1	
Tol (temperature operating limit) °C			-10									
Capacity range		HP			8	10	12	14	16	18	20	
PED	Category				Category III							
	Most critical part	Name	Ps*V		Bar*I			Liquid receiver				
					508			612		764		
Maximum number of connectable indoor units					64 (3)							
Indoor index connection	Min.				100	125	150	175	200	225	250	
	Max.				260	325	390	455	520	585	650	
Dimensions	Unit	Height mm			1,685							
		Width mm			930			1,240				
		Depth mm			765							
	Packed unit	Height mm			1,820							
		Width mm			995			1,305				
		Depth mm			860							
Weight	Unit	kg			213			296		319		
	Packed unit	kg			224			309		332		
Packing	Material				Carton							
	Weight kg				1.5			1.8				
Packing 2	Material				Wood							
	Weight kg				8.9			11.0				
Packing 3	Material				Plastic							
	Weight kg				0.6			0.7				
Casing	Colour				Daikin White							
	Material				Painted galvanized steel plate							
Heat exchanger	Type				Cross fin coil							
Heat exchanger	Indoor side				Air							
	Outdoor side				Air							
	Air flow rate	Cooling	Rated	m³/h	9,145	9,709	10,823	11,576	14,315	12,351	14,893	
		Heating	Rated	m³/h	9,145	9,709	10,823	13,124	14,315	12,351	14,893	
Fan	Quantity				1			2				
	External static pressure	Max.	Pa		78							
Fan motor	Quantity				1			2				
	Type				DC motor							
Compressor	Output W				550			750				
	Quantity				1							
Compressor	Type				Hermetically sealed scroll compressor							
	Crankcase heater W				33							
Operation range	Cooling	Min.	°CDB		-5							
		Max.	°CDB		46							
	Heating	Min.	°CWB		-20							
		Max.	°CWB		16							

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Technical Specifications					REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20A
Sound power level	Cooling	Nom.		dBA	78.3 (4)	78.8 (4)	82.5 (4)	78.7 (4)	83.7 (4)	83.4 (4)	87.9 (4)
	Heating	Nom.		dBA	79.4 (4)	80.7 (4)	83.3 (4)	82.9 (4)	86.3 (4)	85.1 (4)	89.6 (4)
Sound pressure level	Cooling	Nom.		dBA	56.3 (5)	58.0 (5)	60.8 (5)	58.1 (5)	61.4 (5)	63.0 (5)	67.0 (5)
	Heating			dBA	58.1 (5)	58.8 (5)	61.9 (5)	61.3 (5)	64.5 (5)	64.0 (5)	68.0 (5)
Refrigerant	Type				R-32						
	GWP				675.0						
	Charge			kg	9.00				10.6		
	Charge			tCO2Eq	6.08				7.16		
Refrigerant oil	Type				FW68DE						
Piping connections	Liquid	Type				Braze connection					
		OD		mm	9.52		12.70				
	Gas	Type				Braze connection					
		OD		mm	19.1		22.2				28.6
	HP/LP gas	Type				Braze connection					
		OD		mm	15.90		19.10				22.20
	Total piping length	System	Actual		m	1,000 (6)					
Defrost method					Reversed cycle						
Capacity control	Method				Inverter controlled						
Indication if the heater is equipped with a supplementary heater					No						
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0						
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW	0.000						
Power consumption in other than active mode	Crankcase heater mode	Heating	PCK	kW	0.053				0.058		
	Off mode	Cooling	POFF	kW	0.050				0.058		
		Heating	POFF	kW	0.053				0.058		
	Standby mode	Cooling	PSB	kW	0.050				0.058		
		Heating	PSB	kW	0.053				0.058		
	Thermo-stat-off mode	Cooling	PTO	kW	0.001						
		Heating	PTO	kW	0.053				0.058		
Cooling	Cdc (Degradation cooling)				0.25						
Heating	Cdh (Degradation heating)				0.25						
Safety devices	Item	01				High pressure switch					
		02				Fan driver overload protector					
		03				Inverter overload protector					

Standard accessories: Installation and operation manual;Quantity: 1;

Standard accessories: Connection pipes;Quantity: 1;

Electrical Specifications				REYA8A	REYA10A	REYA12A	REYA14A	REYA16A	REYA18A	REYA20A
Power supply	Name			Y1						
	Phase			3N~						
	Frequency Hz			50						
	Voltage V			380-415						
Power supply intake				Both indoor and outdoor unit						
Voltage range	Min. %			-10						
	Max. %			10						
Current - 50Hz	Nominal running current (RLA)	Combina-tion A	Cooling	-						
		Combina-tion B	Cooling	-						
		Cooling	A	10.5 (7)	13.0 (7)	15.6 (7)	18.5 (7)	21.0 (7)	27.8 (7)	32.8 (7)
	Starting current (MSC) - remark			See note 9						
	Zmax List			No requirements						
	Minimum Ssc value kVa			2,789 (8)	3,810 (8)	4,157 (8)	4,676 (8)	5,369 (8)	6,062 (8)	7,274 (8)
	Minimum circuit amps (MCA) A			16.1 (9)	22.0 (9)	24.0 (9)	27.0 (9)	31.0 (9)	35.0 (9)	42.0 (9)
	Maximum fuse amps (MFA) A			20 (10)	25 (10)	32 (10)		40 (10)		50 (10)
Power Performance	Power factor	Combina-tion A	35°C ISO - Full load	-						
		Combina-tion B	46°C ISO - Full load	-						
Wiring connections - 50Hz	For power supply	Quantity	5G							
	For connec-tion with indoor	Quantity	2							
		Remark	F1,F2							
Compressor	Crankcase heater W			33						

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

(3)The actual number of units depends on the connection ratio (CR) and the restrictions for the system. |

(4)Sound power level is an absolute value that a sound source generates. |

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(5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(6)Refer to refrigerant pipe selection or installation manual |

(7)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |

(8)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |

(9)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(10)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

(11)Air Flow Rate (AFR) of multi outdoor systems is sum of AFR of the individual systems it consists of |

MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always ≤ max. running current. |

Maximum allowable voltage range variation between phases is 2%. |

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

Sound values are measured in a semi-anechoic room. |

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase |

Ssc: Short-circuit power |

For detailed contents of standard accessories, see installation/operation manual |

Multi combination (10~28HP) data is corresponding with the standard multi combination

Technical specifications System			REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A
System	Outdoor unit module 1		REMA5A		REYA8A			REYA10A	REYA8A	REYA12A	
	Outdoor unit module 2		REMA5A	REYA8A		REYA10A	REYA12A		REYA16A	REYA14A	REYA16A
Recommended combination			4 x FXFA63A2VEB	3 x FXFA50A2VEB + 3 x FXFA63A2VEB	4 x FXFA63A2VEB + 2 x FXFA80A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB	10 x FXFA50A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB	4 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB	7 x FXFA50A2VEB + 5 x FXFA63A2VEB	6 x FXFA50A2VEB + 4 x FXFA63A2VEB + 2 x FXFA80A2VEB
Recommended combination 2			4 x FXSA63A2VEB	3 x FXSA50A2VEB + 3 x FXSA63A2VEB	4 x FXSA63A2VEB + 2 x FXSA80A2VEB	4 x FXSA50A2VEB + 4 x FXSA63A2VEB	10 x FXSA50A2VEB	6 x FXSA50A2VEB + 4 x FXSA63A2VEB	4 x FXSA50A2VEB + 4 x FXSA63A2VEB + 2 x FXSA80A2VEB	7 x FXSA50A2VEB + 5 x FXSA63A2VEB	6 x FXSA50A2VEB + 4 x FXSA63A2VEB + 2 x FXSA80A2VEB
Recommended combination 3			4 x FXMA63ASVEB	3 x FXMA50ASVEB + 3 x FXMA63ASVEB	4 x FXMA63ASVEB + 2 x FXMA80ASVEB	4 x FXMA50ASVEB + 4 x FXMA63ASVEB	10 x FXMA50ASVEB	6 x FXMA50ASVEB + 4 x FXMA63ASVEB	4 x FXMA50ASVEB + 4 x FXMA63ASVEB + 2 x FXMA80ASVEB	7 x FXMA50ASVEB + 5 x FXMA63ASVEB	6 x FXMA50ASVEB + 4 x FXMA63ASVEB + 2 x FXMA80ASVEB
Continuous heating			Yes								
Cooling capacity	Prated,c	kW	28.0 (1)	36.4 (1)	44.8 (1)	50.4 (1)	55.9 (1)	61.5 (1)	67.4 (1)	73.5 (1)	78.5 (1)
Heating capacity	Nom. 6°CWB	kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Prated,h	kW	28.0 (2)	36.4 (2)	44.8 (2)	50.4 (2)	55.9 (2)	61.5 (2)	67.4 (2)	73.5 (2)	78.5 (2)
	Max. 6°CWB	kW	32.0 (2)	41.0 (2)	50.0 (2)	56.5 (2)	62.5 (2)	69.0 (2)	75.0 (2)	82.5 (2)	87.5 (2)
COP at nom. capacity	6°CWB	kW/kW	3.66 (2)	3.76 (2)	3.72 (2)	3.61 (2)	3.60 (2)	3.46 (2)	3.62 (2)	3.52 (2)	3.49 (2)
SCOP			4.09	4.11	4.35	4.34	4.38	4.41	4.20	4.38	4.36
SCOP recommended combination 2			4.14	4.19	4.38	4.40	4.48	4.45	4.24	4.44	4.43
SCOP recommended combination 3			4.16	4.22	4.37	4.46	4.50	4.48	4.25	4.44	4.43
SEER			7.62	7.49	7.40	7.26	7.27	7.17	7.16	7.48	7.15
SEER recommended combination 2			7.30	7.15	6.93	6.95	6.94	6.88	7.01	7.23	6.96
SEER recommended combination 3			7.61	7.57	7.31	7.30	7.48	7.28	7.29	7.61	7.26
ηs,c			301.9	296.5	293.0	287.5	287.6	283.6	283.4	296.2	282.8
ηs,c recommended combination 2			289.0	282.9	274.2	275.2	274.8	272.1	277.3	286.4	275.6
ηs,c recommended combination 3			301.2	299.8	289.4	288.9	296.1	288.2	288.7	301.3	287.4
ηs,h			160.6	161.5	170.9	170.5	172.2	173.3	165.2	172.0	171.5
ηs,h recommended combination 2			162.5	164.8	172.2	173.2	176.4	175.1	166.6	174.4	174.3
ηs,h recommended combination 3			163.4	165.8	171.8	175.4	177.0	176.3	167.1	174.5	174.0
Space cooling	A Condition EERd		3.81	3.46	3.25	3.26	3.24	3.25	3.24	3.25	3.23
	(35°C - 27/19) Pdc	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
	B Condition EERd		7.73	6.08	5.41	5.18	4.89	4.78		4.77	4.59
	(30°C - 27/19) Pdc	kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.2	57.8
	C Condition EERd		8.99	9.04	9.11	8.76	8.70	8.47	8.52	8.61	8.33
	(25°C - 27/19) Pdc	kW	13.5	18.0	21.2	23.9	26.5	29.1	31.9	34.8	37.2
	D Condition EERd		11.5	13.9	15.0		16.4	16.2	16.0	20.1	17.1
	(20°C - 27/19) Pdc	kW	14.1	15.5	15.9	16.3	16.7	16.8	19.2	19.5	19.7
	A Condition EERd		3.67	3.36	3.14	3.23	3.09	3.10	3.11	3.12	3.03
	(35°C - 27/19) Pdc	kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5
Space cooling recommended combination 2	B Condition EERd		7.32	5.78	5.00	4.94	4.75	4.67	4.78	4.71	4.60
	(30°C - 27/19) Pdc	kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.2	57.8
	C Condition EERd		8.54	8.53	8.36	8.27	8.17	8.00	8.25	8.17	8.04
	(25°C - 27/19) Pdc	kW	13.3	17.8	21.2	23.9	26.5	29.1	31.9	34.8	37.2
Space cooling recommended combination 2	D Condition EERd		11.1	13.3	14.3		15.7	15.4	15.6	19.3	16.7
	(20°C - 27/19) Pdc	kW	13.7	15.0	15.5	15.8	16.0	16.2	18.6	18.8	19.0

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Technical specifications System					REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A		
Space cooling recom- mended combination 3	A Condition (35°C - 27/19)	EERd			3.71	3.41	3.18	3.25	3.27	3.25	3.13	3.27	3.12		
		Pdc		kW	28.0	36.4	44.8	50.4	55.9	61.5	67.4	73.5	78.5		
	B Condition (30°C - 27/19)	EERd			7.71	6.12	5.24	5.08	5.04	4.79	4.94	4.82	4.66		
		Pdc		kW	20.6	26.8	33.0	37.1	41.2	45.3	49.7	54.1	57.8		
	C Condition (25°C - 27/19)	EERd			8.99	9.22	9.04	8.94	9.03	8.71	8.77	8.83	8.64		
		Pdc		kW	13.5	18.1	21.2	23.9	26.5	29.1	31.9	34.8	37.2		
Space heating (Average climate)	D Condition (20°C - 27/19)	EERd			11.6	14.2	15.2	15.4	16.9	16.6	16.2	20.5	17.5		
		Pdc		kW	14.1	15.5	16.0	16.3	16.7	16.6	18.9	19.4	19.3		
		TBivalent	COPd (declared COP)			2.69	2.74	2.87	2.51	2.55	2.33	2.62	2.48	2.46	
		TOL	Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6	
			Tbiv (bivalent temperature)		°C	-10									
						2.69	2.74	2.87	2.51	2.55	2.33	2.62	2.48	2.46	
		A Condition (-7°C)	COPd (declared COP)			2.69	2.74	2.87	2.51	2.55	2.33	2.62	2.48	2.46	
			Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6	
			Tol (temperature operating limit)		°C	-10									
		B Condition (2°C)	COPd (declared COP)			3.00	3.03	3.18	2.87	2.95	2.76	2.94	2.89	2.85	
			Pdh (declared heating cap)		kW	14.2	19.2	20.5	24.7	27.4	30.4	32.6	34.5	36.8	
						4.37	4.02	4.17	4.20	4.09	4.19	3.89	3.99	4.03	
		C Condition (7°C)	COPd (declared COP)			8.60	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4	
			Pdh (declared heating cap)		kW	8.60	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4	
						4.70	5.11	5.45	5.60	5.90	6.02	5.82	6.32	6.26	
		D Condition (12°C)	COPd (declared COP)			7.17	8.40	8.05	9.66	10.7	11.9	12.8	13.5	14.4	
			Pdh (declared heating cap)		kW	7.17	8.40	8.05	9.66	10.7	11.9	12.8	13.5	14.4	
						5.57	6.47	6.93	7.49	8.06	8.49	6.47	7.76	7.33	
Space heating (Average climate) recommended combination 2		A Condition (-7°C)	COPd (declared COP)			8.74	8.93	9.04	9.97	10.0	11.0	9.58	10.7	10.6	
			Pdh (declared heating cap)		kW	8.74	8.93	9.04	9.97	10.0	11.0	9.58	10.7	10.6	
						3.02	3.05	3.18	2.86	2.96	2.73	2.93	2.89	2.86	
		B Condition (2°C)	COPd (declared COP)			14.2	19.2	20.5	24.7	27.4	30.4	32.6	34.5	36.8	
			Pdh (declared heating cap)		kW	14.2	19.2	20.5	24.7	27.4	30.4	32.6	34.5	36.8	
						4.43	4.12	4.18	4.27	4.21	4.25	3.90	4.06	4.09	
		C Condition (7°C)	COPd (declared COP)			8.64	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4	
			Pdh (declared heating cap)		kW	8.64	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4	
						4.76	5.24	5.57	5.78	6.07	6.10	5.97	6.42	6.40	
		D Condition (12°C)	COPd (declared COP)			7.31	8.54	8.08	9.65	10.7	11.9	12.8	13.5	14.4	
			Pdh (declared heating cap)		kW	7.31	8.54	8.08	9.65	10.7	11.9	12.8	13.5	14.4	
						5.62	6.58	6.97	7.59	8.30	8.60	6.72	8.03	7.72	
		TBivalent	COPd (declared COP)			8.87	9.17	9.24	10.3	10.5	11.4	10.1	11.1	11.2	
			Pdh (declared heating cap)		kW	8.87	9.17	9.24	10.3	10.5	11.4	10.1	11.1	11.2	
						2.70	2.26	2.38	2.27	2.34	2.26	2.17	2.24	2.20	
			Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6	
			Tbiv (bivalent temperature)		°C	-10									
						2.70	2.26	2.38	2.27	2.34	2.26	2.17	2.24	2.20	
Space heating (Average climate) recommended combination 2	TOL	Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6		
		Tol (temperature operating limit)		°C	-10										
Space heating (Average climate) recommended combination 3	A Condition (-7°C)	COPd (declared COP)			3.03	3.07	3.17	2.91	2.99	2.77	2.95	2.91	2.87		
		Pdh (declared heating cap)		kW	14.2	19.2	20.5	24.7	27.5	30.5	32.7	34.6	36.9		
	B Condition (2°C)	COPd (declared COP)			4.48	4.14	4.19	4.35	4.22	4.28	3.92	4.05	4.08		
		Pdh (declared heating cap)		kW	8.61	11.7	12.5	15.0	16.7	18.5	19.9	21.0	22.4		
	C Condition (7°C)	COPd (declared COP)			4.76	5.25	5.52	5.77	6.07	6.12	5.93	6.43	6.38		
		Pdh (declared heating cap)		kW	7.28	8.49	8.04	9.67	10.7	11.9	12.8	13.5	14.4		
	D Condition (12°C)	COPd (declared COP)			5.62	6.64	6.94	7.69	8.32	8.65	6.75	7.95	7.68		
		Pdh (declared heating cap)		kW	8.85	9.13	9.17	10.2	10.3	11.2	9.97	11.0			
	TBivalent	COPd (declared COP)			2.71	2.78	2.86	2.53	2.59	2.35	2.62	2.50	2.48		
		Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6		
		Tbiv (bivalent temperature)		°C	-10										
	TOL	COPd (declared COP)			2.71	2.78	2.86	2.53	2.59	2.35	2.62	2.50	2.48		
		Pdh (declared heating cap)		kW	16.0	21.7	23.2	27.9	31.0	34.4	36.9	39.0	41.6		
		Tol (temperature operating limit)		°C	-10										
Capacity range				HP	10	13	16	18	20	22	24	26	28		
PED	Category				Category III										
Maximum number of connectable indoor units					64 (3)										
Indoor index connection	Min.				125	163	200	225	250	275	300	325	350		
	Max.				325	423	520	585	650	715	780	845	910		
Heat exchanger	Indoor side				Air										
	Outdoor side				Air										
	Air flow rate	Cooling	Rated	m³/h	18,290 (11)			18,854 (11)	19,968 (11)	20,532 (11)	23,460 (11)	22,399 (11)	25,138 (11)		
Sound power level	Heating	Rated	m³/h	18,290 (11)			18,854 (11)	19,968 (11)	20,532 (11)	23,460 (11)	23,947 (11)	25,138 (11)			
	Cooling	Nom.	dBA	81.3 (4)			81.6 (4)	83.9 (4)	84.0 (4)	84.8 (4)	84.0 (4)	86.2 (4)			
Sound pressure level	Heating	Nom.	dBA	82.4 (4)			83.1 (4)	84.8 (4)	85.2 (4)	87.1 (4)	86.1 (4)	88.1 (4)			
	Cooling	Nom.	dBA	59.3 (5)			60.2 (5)	62.1 (5)	62.6 (5)		62.7 (5)	64.1 (5)			
Refrigerant	Heating	Nom.	dBA	61.1 (5)			61.5 (5)	63.4 (5)	63.6 (5)	65.4 (5)	64.6 (5)	66.4 (5)			
	Type					R-32									
Refrigerant oil	GWP					675.0									
	Type					FW68DE									
Piping connections	Liquid	Type					Braze connection								
			OD	mm	9.52	12.70							15.90		
	Gas	Type					Braze connection								
			OD	mm	19.1	22.2				28.6					
	HP/LP gas	Type					Braze connection								

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Technical specifications System					REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A
Piping connections	HP/LP gas	OD		mm	15.90		19.10				22.20		
	Total piping length	System	Actual	m			500 (6)				1,000 (6)		
Defrost method										Reversed cycle			
Capacity control	Method									Inverter controlled			
Indication if the heater is equipped with a supplementary heater									No				
Supplementary heater	Back-up capacity	Heating	elbu	kW					0.0				
Power consumption in other than active mode	Crankcase heater mode	Cooling	PCK	kW					0.000				
		Heating	PCK	kW			0.106				0.111		
	Off mode	Cooling	POFF	kW			0.100				0.108		
		Heating	POFF	kW			0.106				0.111		
	Standby mode	Cooling	PSB	kW			0.100				0.108		
		Heating	PSB	kW			0.106				0.111		
	Thermo-stat-off mode	Cooling	PTO	kW					0.002				
		Heating	PTO	kW			0.106				0.121	0.111	0.121
Cooling	Cdc (Degradation cooling)								0.25				
Heating	Cdh (Degradation heating)								0.25				

Electrical specifications System					REYA10A	REYA13A	REYA16A	REYA18A	REYA20A	REYA22A	REYA24A	REYA26A	REYA28A
Power supply	Name								Y1				
	Phase								3N~				
	Frequency			Hz					50				
	Voltage			V					380-415				
Power supply intake									Both indoor and outdoor unit				
Voltage range	Min.			%					-10				
	Max.			%					10				
Current - 50Hz	Nominal running current (RLA)	Combina-tion A	Cooling						-				
		Combina-tion B	Cooling						-				
		Cooling		A	11.2 (7)	16.0 (7)	20.9 (7)	23.4 (7)	26.1 (7)	28.6 (7)	31.5 (7)	34.1 (7)	36.7 (7)
	Starting current (MSC) - remark								See note 9				
	Zmax List								No requirements				
	Minimum Ssc value			kVa	5,196 (8)	5,387 (8)	5,577 (8)	6,599 (8)	6,945 (8)	7,967 (8)	8,158 (8)	8,833 (8)	9,526 (8)
Power Performance	Minimum circuit amps (MCA)			A	30.0 (9)	31.1 (9)	32.2 (9)	38.1 (9)	40.1 (9)	46.0 (9)	47.1 (9)	51.0 (9)	55.0 (9)
	Maximum fuse amps (MFA)			A		40 (10)		50 (10)			63 (10)		
	Power factor	Combina-tion B	35°C ISO - Full load						-				
Wiring connections - 50Hz			46°C ISO - Full load						-				
	For power supply	Quantity							5G				
	For connection with indoor	Quantity							2				
	Remark								F1,F2				

Technical specifications Module					REMA5A								
Cooling capacity	Prated,c			kW						14.0 (1)			
Heating capacity	Max.	6°CWB		kW						16.0 (2)			
Capacity range				HP						5			
PED	Category									Category III			
	Most critical part	Name								Liquid receiver			
		Ps*V		Bar*l						508			
Maximum number of connectable indoor units										64 (3)			
Indoor index connection	Min.									63			
	Max.									163			
Dimensions	Unit	Height		mm						1,685			
		Width		mm						930			
		Depth		mm						765			
	Packed unit	Height		mm						1,820			
		Width		mm						995			
		Depth		mm						860			
Weight	Unit			kg						213			
	Packed unit			kg						224			
Packing	Material									Carton			
	Weight			kg						1.5			
Packing 2	Material									Wood			
	Weight			kg						8.9			
Packing 3	Material									Plastic			
	Weight			kg						0.6			
Casing	Colour									Daikin White			
	Material									Painted galvanized steel plate			

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Technical specifications Module					REMA5A
Heat exchanger	Type				Cross fin coil
	Indoor side				Air
	Outdoor side				Air
	Air flow rate	Cooling	Rated	m³/h	9,145
		Heating	Rated	m³/h	9,145
Fan	Quantity				1
	External static pressure	Max.		Pa	78
Fan motor	Quantity				1
	Type				DC motor
	Output			W	550
Compressor	Quantity				1
Compressor	Type				Hermetically sealed scroll compressor
	Crankcase heater			W	33
Operation range	Cooling	Min.	°CDB		-5
		Max.	°CDB		46
	Heating	Min.	°CWB		-20
		Max.	°CWB		16
Sound power level	Cooling	Nom.	dBA		78.3 (4)
	Heating	Nom.	dBA		79.4 (4)
Sound pressure level	Cooling	Nom.	dBA		56.3 (5)
	Heating		dBA		58.1 (5)
Refrigerant	Type				R-32
	GWP				675.0
	Charge		kg		9.00
	Charge		tCO2Eq		6.08
Refrigerant oil	Type				FW68DE
Piping connections	Liquid	Type			Braze connection
		OD	mm		9.52
	Gas	Type			Braze connection
		OD	mm		19.1
	HP/LP gas	Type			Braze connection
		OD	mm		15.90
Defrost method					Reversed cycle
Capacity control	Method				Inverter controlled
Safety devices	Item	01			High pressure switch
		02			Fan driver overload protector
		03			Inverter overload protector

Electrical specifications Module				REMA5A
Power supply	Name			Y1
	Phase			3N~
	Frequency	Hz		50
	Voltage	V		380-415
Power supply intake				Both indoor and outdoor unit
Voltage range	Min.	%		-10
	Max.	%		10
Current - 50Hz	Nominal running current (RLA)	Combina- tion A	Cooling	-
		Combina- tion B	Cooling	-
		Cooling	A	5.6 (6)
	Starting current (MSC) - remark			See note 9
	Zmax	List		No requirements
	Minimum Ssc value		kVa	2,598 (7)
	Minimum circuit amps (MCA)		A	15.0 (8)
	Maximum fuse amps (MFA)		A	20 (9)
Power Performance	Power factor	Combina- tion B	35°C ISO - Full load	-
			46°C ISO - Full load	-
Wiring connections - 50Hz	For power supply	Quantity		5G
	For connec- tion with indoor	Quantity		2
		Remark		F1,F2
Compressor	Crankcase heater		W	33

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

(3)The actual number of units depends on the connection ratio (CR) and the restrictions for the system. |

(4)Sound power level is an absolute value that a sound source generates. |

(5)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(6)RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |

(7)In accordance with EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Ssc ≥ minimum Ssc value |

(8)MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

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(9)MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

Air Flow Rate (AFR) of multi outdoor systems is sum of AFR of the individual systems it consists of |

Refer to refrigerant pipe selection or installation manual |

MSC means the maximum current during start up of the compressor. This unit uses only inverter compressors. Starting current is always $\leq$ max. running current. |

Maximum allowable voltage range variation between phases is 2%. |

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

Sound values are measured in a semi-anechoic room. |

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16\text{A}$ and $\leq 75\text{A}$ per phase |

Ssc: Short-circuit power |

For detailed contents of standard accessories, see installation/operation manual |

Multi combination (10~28HP) data is corresponding with the standard multi combination

Options

Options

REYA-A
REMASA

VRV5	R32 models
Heat recovery	
Option list	

Description	Option	REYA*A*								REMA*A*	Multi -2-unit
		8	10	12	14	16	18	20	5		
Low ambient option	EKBPH012TA	0	0	0	-	-	-	-	0	0 (*1)	
Bottom plate heater	EKBPH020TA	-	-	-	0	0	0	0	-	0 (*1)	
Demand adaptor kit	DTA104A*	0	0	0	0 (*2)	0 (*2)	0 (*2)	0 (*2)	0	0	
External control adapter	DTA109A51*	0	0	0	0 (*2)	0 (*2)	0 (*2)	0 (*2)	0	0	
Refnet header	KHRQ23M29H	0	0	0	0	0	0	0	0	0	
	KHRQ23M64H	-	-	0	0	0	0	0	-	0	
	KHRQ23M75H	-	-	-	-	-	-	-	-	0	
Refnet joint	KHRQ23M20T	0	0	0	0	0	0	0	0	0	
	KHRQ23M29T9	0	0	0	0	0	0	0	0	0	
	KHRQ23M64T	-	-	0	0	0	0	0	-	0	
	KHRQ23M75T	-	-	-	-	-	-	-	-	0	
Refrigerant branch kit	BHFQ23P907A	-	-	-	-	-	-	-	-	0	

*1 -1: option kits are required per unit.

*2 These options require mounting plate -EKS826B1-.

*3 Because both adaptor PCBs have the same installation location, it is only possible to install either -DTA104A- or -DTA109A51-.

Remote controllers and centralised controllers with R32 safety system functionality

Nr.	Item	Sound pressure level of built-in alarm	Mode			
			Fully functional	Alarm only	Supervisor	
			Built-in alarm	Built-in alarm	Built-in alarm	External alarm connection
1	BRC1H52/82*	-65 dBA at 1 m	0	0	0	-
2	DCM601A51 (*4)	Not applicable	-	-	-	0 (*6)
3	DCM601B51 (*5)	-65 dBA at 1 m	-	-	0	0 (*6)

*4 From software version -1.28.00- onwards.

*5 From software version -1.32.00- onwards.

*6 via WAGO module

3D141187D

4 Combination table

4 - 1 Combination Table

REYA-A

REMA5A

VRV5

Heat recovery

Multi-unit standard combinations table

		5HP	8HP	10HP	12HP	14HP	16HP	18HP	20HP
Non-continuous heating	REMA5* (*1)	1							
	REYA8*		1						
	REYA10*			1					
	REYA12*				1				
	REYA14*					1			
	REYA16*						1		
	REYA18*							1	
	REYA20*								1
Continuous heating ·2· outdoor units	REYA10*	2							
	REYA13*	1	1						
	REYA16*		2						
	REYA18*		1	1					
	REYA20*		1		1				
	REYA22*			1	1				
	REYA24*		1				1		
	REYA26*				1	1			
	REYA28*				1		1		

Notes

1. The ·REMA5*· unit cannot be used as a standalone unit and may only be used in standard combinations.
2. Standard and free combinations have different piping restrictions.
3. Never combine more than ·2· units to create a multi-combination.

4D138289

REYA-A

REMA-A

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system	
FXDA10A	FXZA15A and/or FXAA15A
Yes	Yes

1. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) ≤ ·85·%: no special restrictions.
Follow the restrictions that apply to regular ·VRV DX· indoor units.
2. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) > ·85·%: special restrictions apply.
 - A. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: no special restrictions.
 - B. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and NOT ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: the restrictions below apply.
 - ° 85% < CR ≤ 95% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·65·%.
 - ° 95% < CR ≤ 100% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·55·%.
 - ° 100% < CR ≤ 105% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·40·%.
 - ° 105% < CR ≤ 130% -> ·FXDA10A· cannot be used

Remark

Only the ·10 / 15·-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular ·VRV DX· indoor units.

4D141206A

4 Combination table

4 - 1 Combination Table

REYA-A
REMA-A

4

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system	
FXDA10A	FXZA15A and/or FXAA15A
Yes	No

1. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) ≤ ·85·%: no special restrictions. Follow the restrictions that apply to regular ·VRV DX· indoor units.
2. In case the system contains the indoor unit situation as shown in the table above, and the total connection ratio (·CR·) > ·85·%: special restrictions apply.
 - A. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: no special restrictions.
 - B. When the connection ratio (·CR1·) of the sum of all ·FXDA10A· units in the system ≤ ·65·%, and NOT ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: the restrictions below apply.
 - * 85% < CR ≤ 95% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·65·%.
 - * 95% < CR ≤ 100% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·55·%.
 - * 100% < CR ≤ 105% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·40·%.
 - * 105% < CR ≤ 110% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·30·%.
 - * 110% < CR ≤ 115% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·20·%.
 - * 115% < CR ≤ 120% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·10·%.
 - * 120% < CR ≤ 125% -> ·CR1· of the sum of all ·FXDA10A· indoor units in the system must be ≤ ·5·%.
 - * 125% < CR ≤ 130% -> ·FXDA10A· cannot be used

Remark

Only the ·10 / 15·-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular ·VRV DX· indoor units.

4D141206A

REYA-A
REMA-A

Unit combination restrictions: ·VRV5· outdoor units (all models) + ·10 / 15·-class indoor units

Indoor unit in the system	
FXDA10A	FXZA15A and/or FXAA15A
No	Yes

1. In case the system contains the indoor units situation which as shown in the table above, and the total connection ratio (·CR·) ≤ ·100·%: no special restrictions. Follow the restrictions that apply to regular ·VRV DX· indoor units.
2. In case the system contains the indoor units situation which as shown in the table above, and the total connection ratio (·CR·) > ·100·%: special restrictions apply.
 - A. When the connection ratio (·CR1·) of the sum of all ·FXZA15A· and/or ·FXAA15A· units in the system ≤ ·70·%, and ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: no special restrictions.
 - B. When the connection ratio (·CR1·) of the sum of all ·FXZA15A· and/or ·FXAA15A· units in the system ≤ ·70·%, and NOT ALL other ·VRV DX· indoor units have an individual capacity class > ·50·: the restrictions below apply.
 - * 100% < CR ≤ 105% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·70·%.
 - * 105% < CR ≤ 110% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·60·%.
 - * 110% < CR ≤ 115% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·40·%.
 - * 115% < CR ≤ 120% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·25·%.
 - * 120% < CR ≤ 125% -> ·CR1· of the sum of all ·FXZA15A· and/or ·FXAA15A· indoor units in the system must be ≤ ·10·%.
 - * 125% < CR ≤ 130% -> ·FXZA15A· and ·FXAA15A· cannot be used.

Remark

Only the ·10 / 15·-class indoor units explicitly mentioned on this page are in scope. Other indoor units follow the rules that apply to regular ·VRV DX· indoor units.

4D141206A

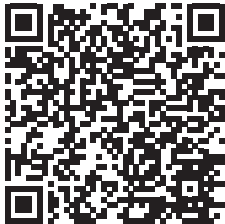
5 Capacity tables

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



- An overview of **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



5 Capacity tables

5 - 2 Integrated Heating Capacity Correction Factor

REYA-A
REMA5A

VRV5

Heat recovery

Integrated heating capacity coefficient

Inlet air temperature of heat exchanger

[°CDB/°CWB]	-7/-7.6	-5/-5.6	-3/-3.7	0/-0.7	3/2.2	5/4.1	7/6
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Integrated correction factor for frost accumulation (C)

For single unit installation	8HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
	10HP	0,90	0,88	0,82	0,75	0,76	0,83	1,00
	12HP	0,90	0,87	0,82	0,71	0,72	0,81	1,00
	14HP	0,90	0,87	0,81	0,68	0,69	0,80	1,00
	16HP	0,90	0,87	0,81	0,68	0,68	0,79	1,00
	18HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
For multi-unit installation	20HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
	10HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
	13HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
	16HP	0,90	0,88	0,83	0,80	0,81	0,85	1,00
	18HP	0,90	0,88	0,83	0,77	0,78	0,84	1,00
	20HP	0,90	0,88	0,83	0,75	0,76	0,83	1,00
	22HP	0,90	0,88	0,82	0,73	0,74	0,82	1,00
	24HP	0,90	0,88	0,82	0,74	0,74	0,82	1,00
	26HP	0,90	0,87	0,82	0,70	0,71	0,80	1,00
	28HP	0,90	0,87	0,82	0,70	0,70	0,80	1,00

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.

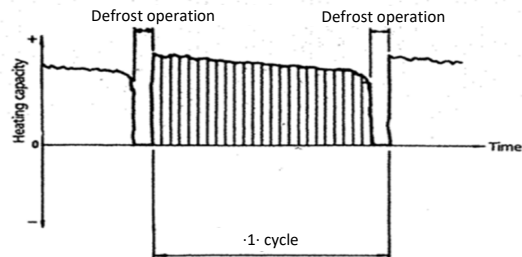
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

Formula $A = B \cdot C$

A= Integrated heating capacity

B= Capacity characteristics value

C= Integrated correction factor for frost accumulation (see table)



Notes

1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).
2. When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (°C DB), relative humidity (RH) and the amount of frosting which occurs.
3. The multi-combination data -VRV4- corresponds with the standard multi-combination of drawing -4D138289-.

4D141185

5 Capacity tables

5 - 3 Capacity Correction Factor

REYA8A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
8HP	9.5	12.7

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
8HP	1	0.2

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0.5 + Equivalent length of the branch pipes

6. Example -8HP-

Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.91
- Heating mode = 1.00

4D141191A

REYA10A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
10HP	9.5	12.7

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
10HP	1	0.2

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0.5 + Equivalent length of the branch pipes

6. Example -10HP-

Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.2 + 40 m = 56 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.92
- Heating mode = 1.00

4D141191A

5 Capacity tables

5 - 3 Capacity Correction Factor

5

REYA12A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. **Main liquid pipe size increase**

Model	Standard liquid side Ø	Increased liquid side Ø
12HP	12,7	15,9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
12HP	1	0,3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0,5 + Equivalent length of the branch pipes

6. Example - 12HP:

Overall equivalent length

- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0,92
- Heating mode = 1,00

4D141191A

REYA13A
REYA14A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. **Main liquid pipe size increase**

Model	Standard liquid side Ø	Increased liquid side Ø
13+14HP	12,7	15,9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
13+14HP	1	0,3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0,5 + Equivalent length of the branch pipes

6. Example - 14HP:

Overall equivalent length

- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0,91
- Heating mode = 1,00

4D141191A

5 Capacity tables

5 - 3 Capacity Correction Factor

REYA16A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit.
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Indoor connection ratio > 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio.	X	Correction ratio of piping to furthest indoor unit.
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3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
16HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes
---------------------------	---	------------------------------------	---	-------------------	---	---------------------------------------

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
16HP	1	0.3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length	=	Equivalent length of the main pipe	X	0.5	+	Equivalent length of the branch pipes
---------------------------	---	------------------------------------	---	-----	---	---------------------------------------

6. Example :16HP.

Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.92
- Heating mode = 1.00

4D141191A

REYA18A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at 100% connection ratio.	X	Correction ratio of piping to furthest indoor unit.
-----------------------------------	---	---	---	---

Indoor connection ratio > 100%.

Maximum capacity of outdoor units	=	Capacity of outdoor units from capacity table at installed connection ratio.	X	Correction ratio of piping to furthest indoor unit.
-----------------------------------	---	--	---	---

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
18HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length	=	Equivalent length of the main pipe	X	Correction factor	+	Equivalent length of the branch pipes
---------------------------	---	------------------------------------	---	-------------------	---	---------------------------------------

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
18HP	1	0.3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length	=	Equivalent length of the main pipe	X	0.5	+	Equivalent length of the branch pipes
---------------------------	---	------------------------------------	---	-----	---	---------------------------------------

6. Example :18HP.

Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

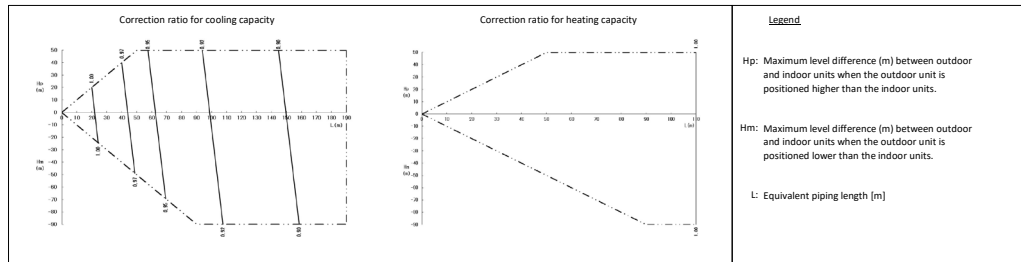
- Cooling mode = 0.88
- Heating mode = 1.00

4D141191A

5 Capacity tables

5 - 3 Capacity Correction Factor

REYA20A



Notes

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. Method of calculating the capacity of the outdoor units.

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit.

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit.

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
20HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

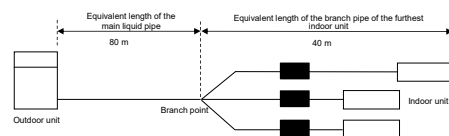
Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
20HP	1	0.3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0.5 + Equivalent length of the branch pipes

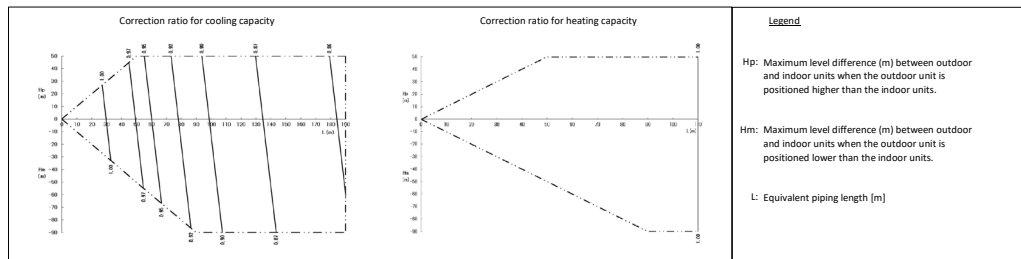
6. Example · 20HP



Overall equivalent length
 • Cooling mode = 80 m x 0.5 + 40 m = 80 m
 • Heating mode = 80 m x 0.3 + 40 m = 64 m
 Capacity correction ratio (height difference = 0)
 • Cooling mode = 0.93
 • Heating mode = 1.00

4D141191A

REYA22A



Notes

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. Method of calculating the capacity of the outdoor units.

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit.

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit.

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
22HP	12.7	15.9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

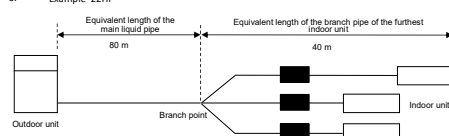
Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
22HP	1	0.3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0.5 + Equivalent length of the branch pipes

6. Example · 22HP



Overall equivalent length
 • Cooling mode = 80 m x 0.5 + 40 m = 80 m
 • Heating mode = 80 m x 0.3 + 40 m = 64 m
 Capacity correction ratio (height difference = 0)
 • Cooling mode = 0.92
 • Heating mode = 1.00

4D141191A

5 Capacity tables

5 - 3 Capacity Correction Factor

REYA24A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
24HP	12,7	15,9

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
24HP	1	0,3

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0,5 + Equivalent length of the branch pipes

6. Example - 24HP.

Overall equivalent length

- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,3 + 40 m = 64 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0,91
- Heating mode = 1,00

4D141191A

REYA26A

Correction ratio for cooling capacity

Correction ratio for heating capacity

Legend

Hp: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned higher than the indoor units.

Hm: Maximum level difference (m) between outdoor and indoor units when the outdoor unit is positioned lower than the indoor units.

L: Equivalent piping length [m]

Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
26HP	15,9	19,1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
26HP	1	0,4

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0,5 + Equivalent length of the branch pipes

6. Example - 26HP.

Overall equivalent length

- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

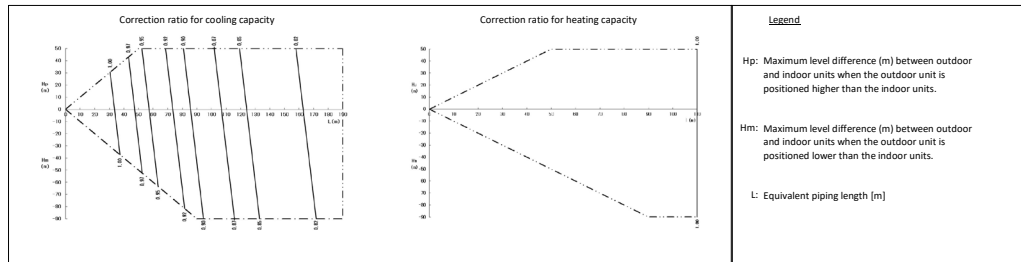
- Cooling mode = 0,92
- Heating mode = 1,00

4D141191A

5 Capacity tables

5 - 3 Capacity Correction Factor

REYA28A



Notes

1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.

2. Method of calculating the capacity of the outdoor units.

The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at 100% connection ratio. X Correction ratio of piping to furthest indoor unit.

Indoor connection ratio > 100%.

Maximum capacity of outdoor units = Capacity of outdoor units from capacity table at installed connection ratio. X Correction ratio of piping to furthest indoor unit.

3. Main liquid pipe size increase

Model	Standard liquid side Ø	Increased liquid side Ø
28HP	15.9	19.1

For the allowed system setups and the rules for when to increase the main liquid piping diameter, refer to the installation manual.

4. Overall equivalent length for calculating heating capacity

Overall equivalent length = Equivalent length of the main pipe X Correction factor + Equivalent length of the branch pipes

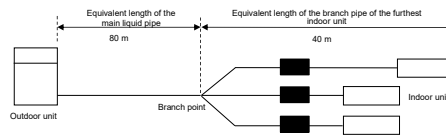
Choose the correction factor from the following table.

Model	Correction factor for heating capacity	
	Standard liquid size	Increased liquid size
28HP	1	0.4

5. Overall equivalent length for calculating cooling capacity

Overall equivalent length = Equivalent length of the main pipe X 0.5 + Equivalent length of the branch pipes

6. Example - 28HP.



Overall equivalent length

- Cooling mode = 80 m x 0.5 + 40 m = 80 m
- Heating mode = 80 m x 0.4 + 40 m = 72 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0.91
- Heating mode = 1.00

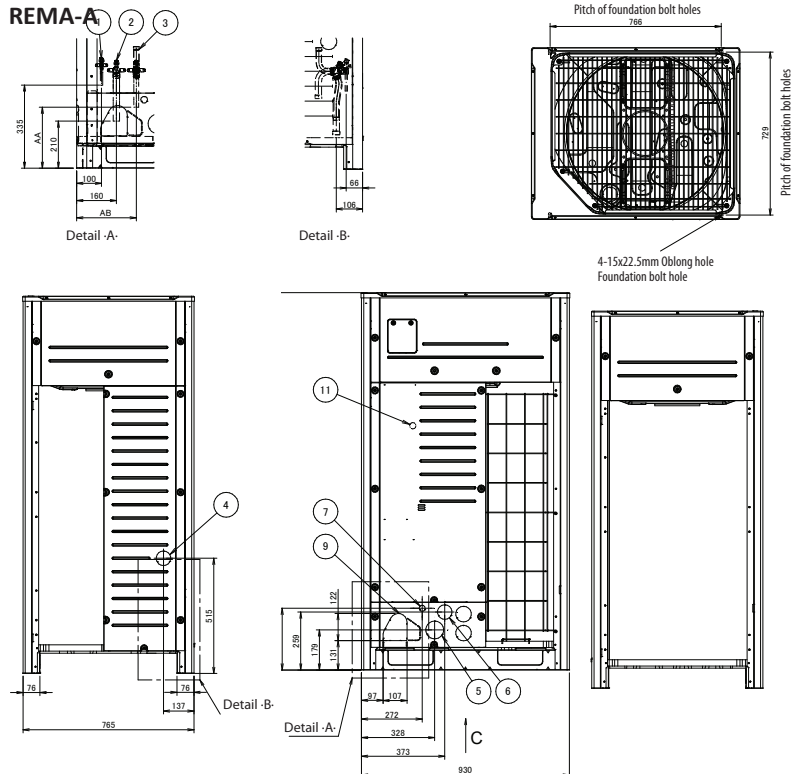
4D141191A

6 Dimensional drawings

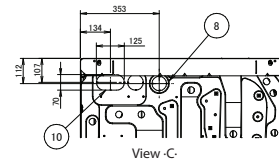
6 - 1 Dimensional Drawings

REYA8-12A

REMA-A



Model	AA	AB
RYYQ8-12U, RXYQ8-12U, RXYQQ8-12U, RXYTQ8U	-	-
RFMQ5U, RYMQ8-12U, RFYQ8-12U, RFMA5A, RFYA8A-12A	240	240



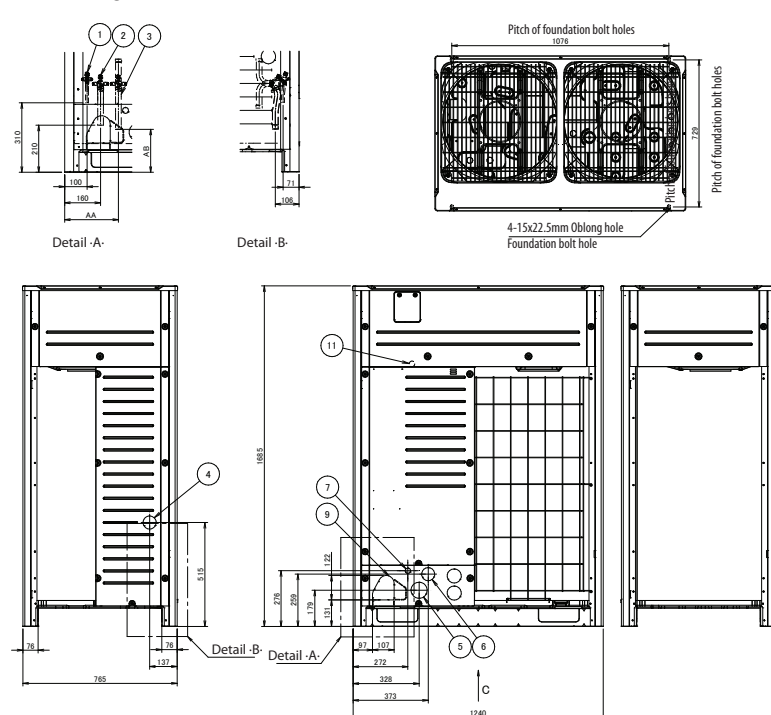
NOTES

- | | | |
|----|---|-------------------------------|
| 1. | Detail A- and detail B- indicate the dimensions after fixing the attached piping. | |
| 2. | Items 4 - 10: Knockout hole. | |
| 3. | Gas pipe | |
| | REMA5A, REYA8-10A, RYQX8U, RYMQ8U, RXYQ8U, RXYQ8U, RXYQ8U | : Ø -19.1- brazing connection |
| | REYA12A, RYQY10U, RYMQ10U, RXYQ10U, RXYQ10U | : Ø -22.2- brazing connection |
| | REMQU5U, REYQ8-12U | : Ø -25.4- brazing connection |
| | RYRQ12U, RYMQ12U, RXYQ12U, RXYQ12U | : Ø -28.6- brazing connection |
| | Liquid pipe | |
| | REMA5A, REYA8-10A, RYQX8-10U, RYMQ8-10U, RXYQ8-10U, RXYQX8-10U, REMQ5U, REYQ8-12U, RXYQ8U | : Ø -9.5- brazing connection |
| | REYA12A, RYQY12U, RYMQ12U, RXYQ12U, RXYQ12U | : Ø -12.7- brazing connection |
| | Equalising pipe | |
| | RYMQ8-10U | : Ø -19.1- brazing connection |
| | RYMQ12U | : Ø -22.2- brazing connection |
| | High pressure/low pressure gas pipe | |
| | REMA5A, REYA8-10A | : Ø -15.9- brazing connection |
| | REYA12A, REMQ5U, REYQ8-12U | : Ø -19.1- brazing connection |

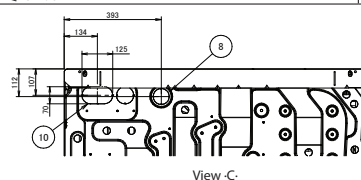
No.	Parts name	Remarks
1	Liquid pipe connection port	See note -3.
2	Gas pipe connection port	See note -3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (-M8-)

2D119001C

REYA14-20A



Model	AA	AB
RXYQ14-20U, RYYQ14-20U, RXYQQ14-20U, RXYTQ10-16U	-	-
RYMQ14-16U, REYQ14-20U, REYA14-20A	240	240
RYMQ18-20U	240	192



NOTES

- | | | |
|----|---|-------------------------------|
| 1. | Detail -A- and detail -B- indicate the dimensions after fixing the attached piping. | |
| 2. | Items -4 - 10: Knockout hole. | |
| 3. | Gas pipe | |
| | REYA14-18A, RXYQTQ10U | : Ø -22.2- brazing connection |
| | REYQ14-20U | : Ø -25.4- brazing connection |
| | REYA20A, RYYQ14-20U, RYMQ14-20U,
RXQY14-20U, RXYQQ14-20U, RXYQTQ12-16U | : Ø -28.6- brazing connection |
| | Liquid pipe | |
| | RXYQTQ10U | : Ø -9.5- brazing connection |
| | REYA14-20A, RYYQ14-16U, RYMQ14-16U,
RXQY14-16U, RXYQQ14-16U, REYQ14-20U,
RXYQTQ12-16U | : Ø -12.7- brazing connection |
| | RYQY18-20U, RYMQ18-20U, RXQY18-20U,
RXYQQ18-20U | : Ø -15.9- brazing connection |
| | Equalising pipe | |
| | RYMQ14-16U | : Ø -22.2- brazing connection |
| | RYMQ18-20U | : Ø -28.6- brazing connection |
| | High pressure/low pressure gas pipe | |
| | REYA14-18A, REYQ14-20U | : Ø -19.1- brazing connection |
| | REYA20A | : Ø -22.2- brazing connection |

No.	Parts name	Remarks
1	Liquid pipe connection port	See note -3.
2	Gas pipe connection port	See note -3.
3	Equalising pipe connection port High pressure/low pressure gas pipe	See note -3.
4	Power cord routing hole (side)	Ø65
5	Power cord routing hole (front)	Ø80
6	Power cord routing hole (front)	Ø65
7	Power cord routing hole (front)	Ø27
8	Power cord routing hole (bottom)	Ø65
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	
11	Grounding terminal	Inside of the switch box (-MB-)

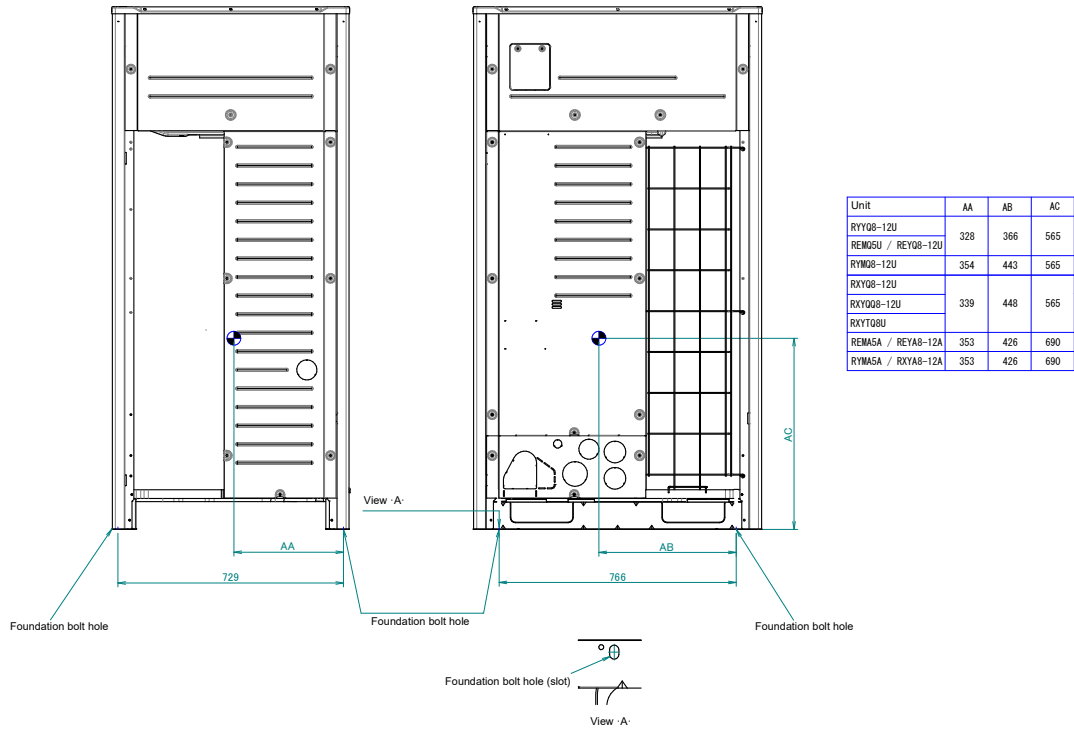
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7 Centre of gravity

7 - 1 Centre of Gravity

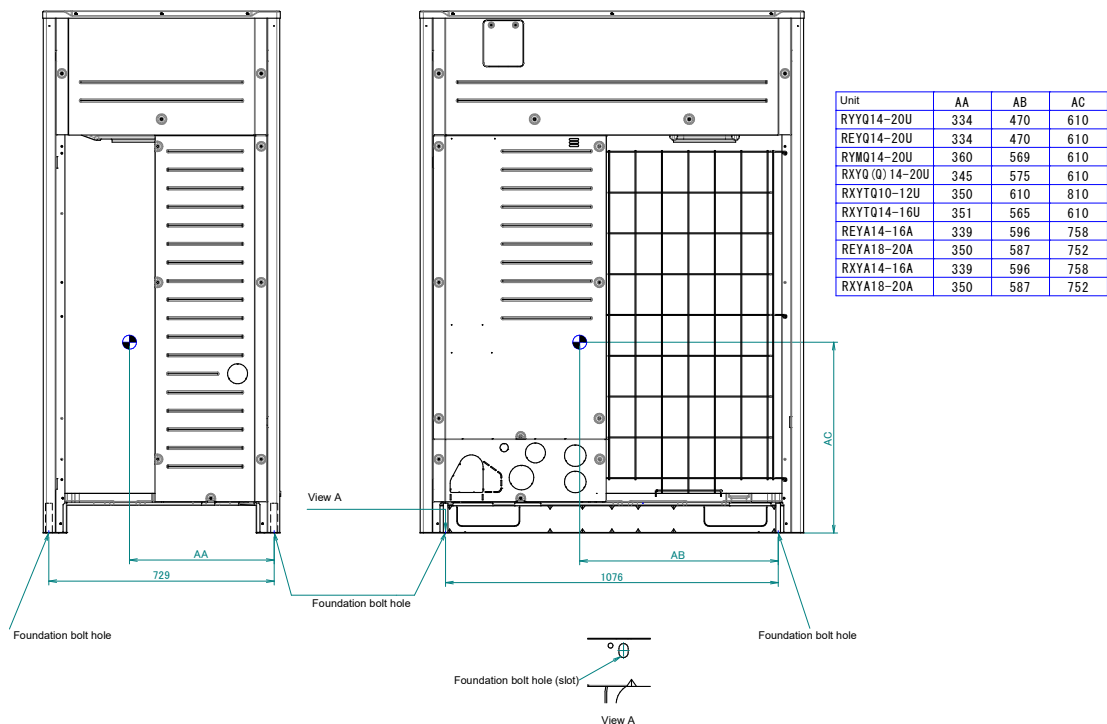
7

REYA-A
REMA5A



3D119703B

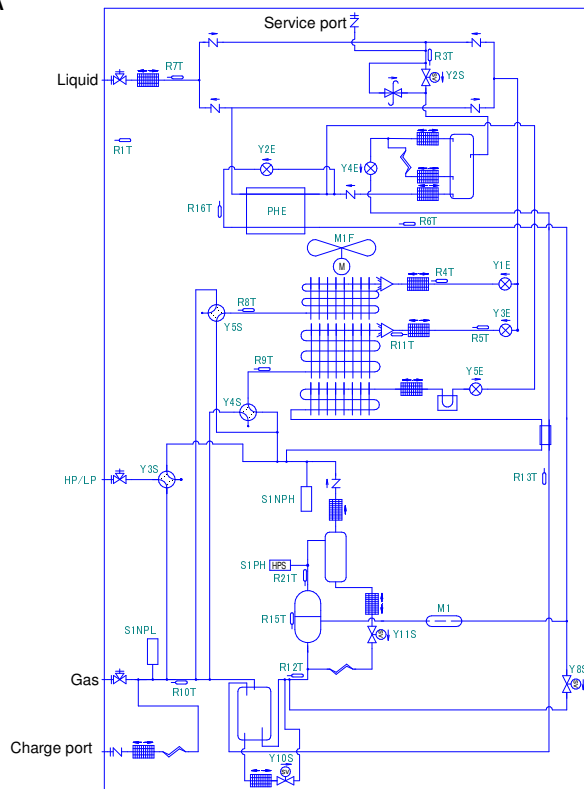
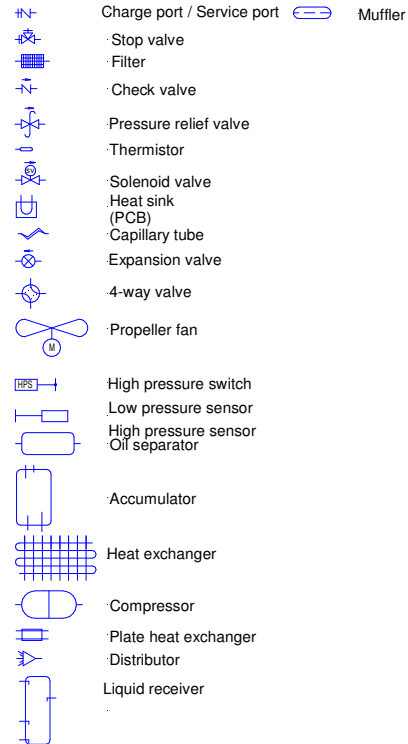
REYA-A
REMA5A



3D119704B

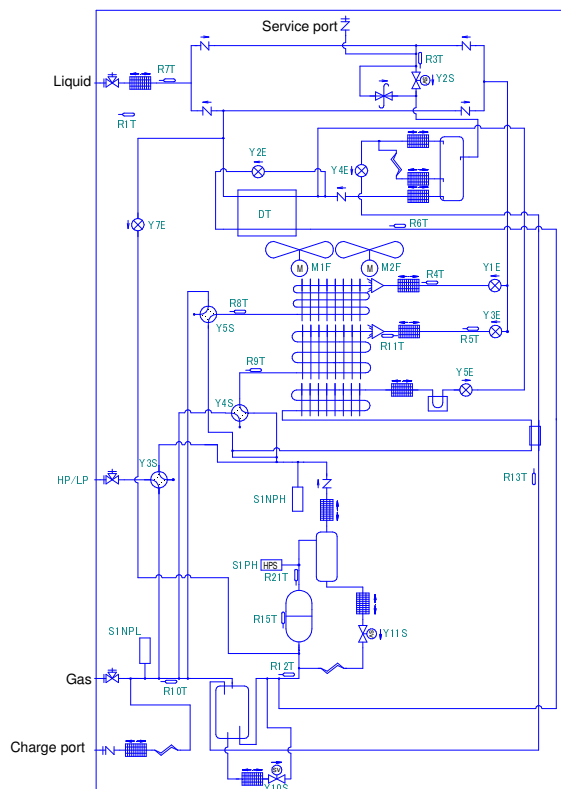
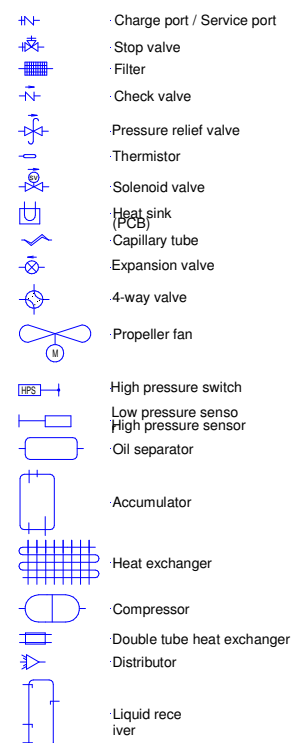
8 Piping diagrams

8 - 1 Piping Diagrams

REYA8-12A
REMA5A


3D138283

REYA14-20A



3D138284

9 Wiring diagrams

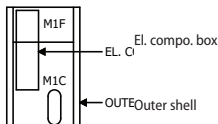
9 - 1 Wiring Diagrams - Three Phase

REYA8-12A / REMA5A

NOTES to go through before starting the unit

1. Symbols:
 - X1M : Main terminal
 - : Earth wiring
 - - - : Field wire
 - : Field cable
 - : Screened conductor
 - ① : Several wiring possibilities
 - : Option
 - : Wiring depending on model
 - : Not mounted in switch box
 - : PCB
2. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP switches.
3. Do not operate the unit by short-circuiting protection device S1PH.
4. Refer to the installation manual for indoor-outdoor transmission F1-F2 and outdoor-multi transmission Q1-Q2 wiring.
5. When using the central control system, connect outdoor-outdoor transmission F1-F2.
6. The capacity of the contact is 220~240V AC - 0.5A (Rush current needs 3A or less).
7. Use dry contact for micro-current (10mA or less, 15V DC).
8. When using the optional adapter, refer to the installation manual of the optional adapter.

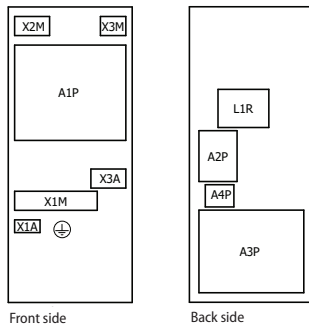
LAYOUT OF M1C, M1F, M2F



TERMINAL OF M1C



POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	Printed circuit board (inverter)
A4P	Printed circuit board (fan)
BS* (A1P)	Push button switch
DS* (A1P)	Dipswitch
E1HC	Crank case heater
E3H	* Bottom plate heater
F1U (A1P)	Fuse T 10 A 250 V
F1U, F2U	Fuse T 1 A 250 V
F3U	# Field fuse
HAP (A1P)	Running LED (service monitor-green)
K*R (A*P)	Relay on PCB
L1R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
Q1DI	# Earth leakage circuit breaker
R1T	Thermistor (Air)
R3T	Thermistor (Liquid main)
R4T	Thermistor (Heat exch. liquid upper)
R5T	Thermistor (Heat exch. liquid lower)
R6T	Thermistor (Subcool heat exch. gas)
R7T	Thermistor (Subcool heat exch. liquid)
R8T	Thermistor (Heat exch. gas upper)
R9T	Thermistor (Heat exch. gas lower)
R10T	Thermistor (Suction)
R11T	Thermistor (Heat exch. de-icer)
R12T	Thermistor (Suction compressor)

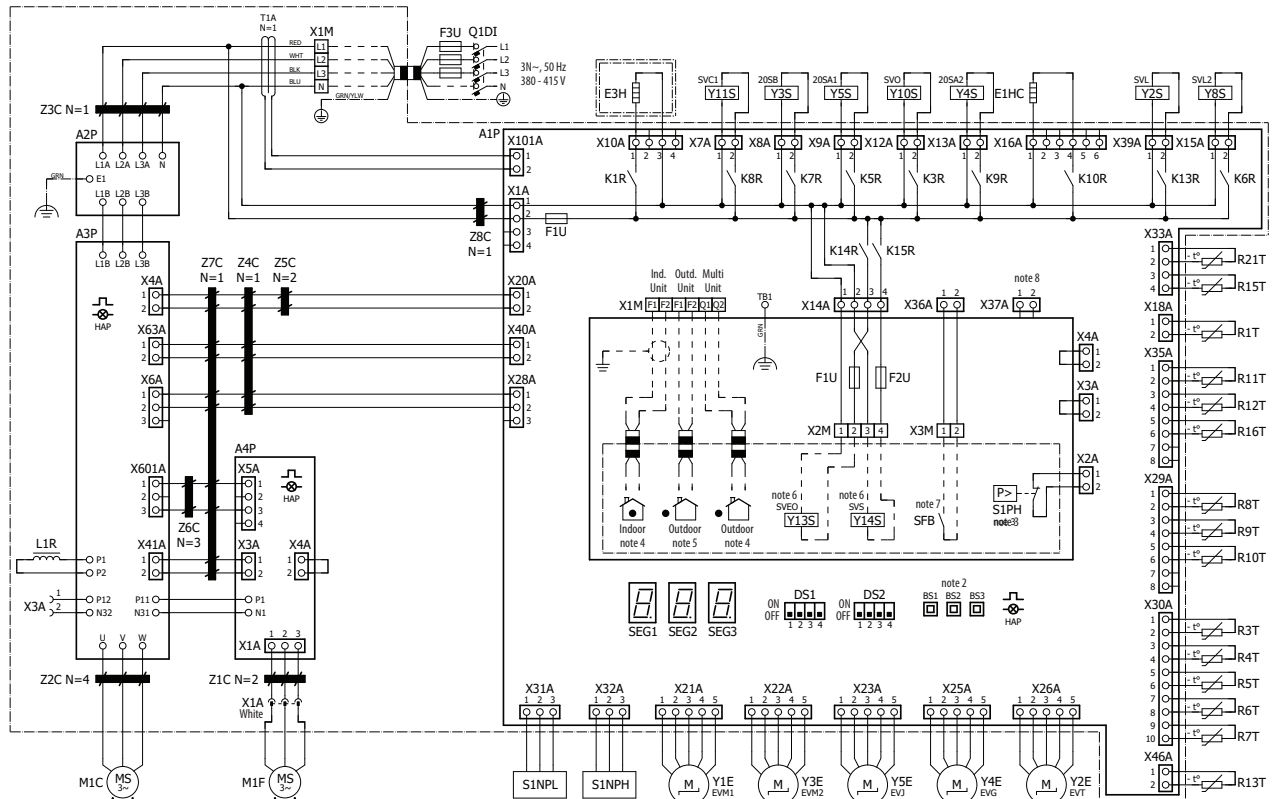
Part n°	Description
R13T	Thermistor (Receiver gas)
R15T	Thermistor (M1C body)
R16T	Thermistor (Gas injection)
R21T	Thermistor (M1C discharge pipe)
S1NPH	High pressure sensor
S1NPL	Low pressure sensor
S1PH	High pressure switch
SEG* (A1P)	7-segment display
SFB	# Mechanical ventilation error input
T1A	Current sensor
X*A	Connector
X*M	Terminal strip
Y1E	Electronic exp. valve (Heat exch. upper)
Y2E	Electronic exp. valve (Subc. heat exch.)
Y3E	Electronic exp. valve (Heat exch. lower)
Y4E	Electronic exp. valve (Receiver gas)
Y5E	Electronic exp. valve (Inverter cooling)
Y2S	Solenoid valve (Liquid pipe)
Y3S	Solenoid valve (HP/LP gas pipe)
Y4S	Solenoid valve (Heat exchanger lower)
Y5S	Solenoid valve (Heat exchanger upper)
Y8S	Solenoid valve (Gas injection)
Y10S	Solenoid valve (Accu oil return)
Y11S	Solenoid valve (M1C oil return)
Y13S	# Error operation output (SVEO)
Y14S	# Leak sensor output (SVS)
Z*C	Noise filter (ferrite core)

*: optional # : field supply

4D138280A

REYA8-12A

REMA5A



4D138280A

9 - 1 Wiring Diagrams - Three Phase

NOTES to go through before starting the unit

1. Symbols:

X1M : Main terminal

____ . ____ . ____ : Earth wiring

— () — : Screened conductor

① : Several wiring possibilities

 : Option

! : Wiring depending on model

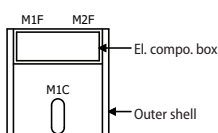
: Not mounted in switch box

:PCB

: PCB

2. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP switches.
3. Do not operate the unit by short-circuiting protection device S1PH.
4. Refer to the installation manual for indoor-outdoor transmission F1-F2 and outdoor-multi transmission Q1-Q2 wiring.
5. When using the central control system, connect outdoor-outdoor transmission F1-F2.
6. The capacity of the contact is 220~240V AC - 0.5A (Rush current needs 3A or less).
7. Use dry contact for micro-current (10mA or less, 15V DC).
8. When using the optional adapter, refer to the installation manual of the optional adapter.

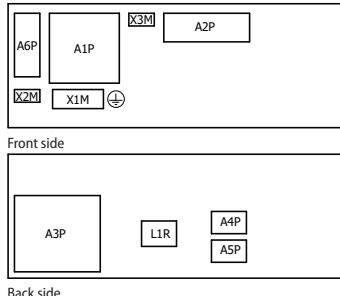
LAYOUT OF M1C, M1F, M2F



TERMINAL OF M1C



POSITION IN SWITCH BOX



LEGEND

Part n°	Description
A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	Printed circuit board (inverter)
A4P, A5P	Printed circuit board (fan)
A6P	Printed circuit board (sub)
B5* (A1P)	Push button switch
D5* (A1P)	Dipswitch
E1HC	Crank case heater
E3H	* Bottom plate heater
F1U (A1P)	Fuse T 10 A 250 V
F1U (A6P)	Fuse 3.15 A 250 V
F3U	# Field fuse
HAP (A1P)	Running LED (service monitor-green)
K*R (A*P)	Relay on PCB
L1R	Reactor
M1C	Motor (compressor)
M1F, M2F	Motor (fan)
Q1DI	# Earth leakage circuit breaker
R1T	Thermistor (Air)
R3T	Thermistor (Liquid main)
R4T	Thermistor (Heat exch. liquid upper)
R5T	Thermistor (Heat exch. liquid lower)
R6T	Thermistor (Subcool heat exch. gas)
R7T	Thermistor (Subcool heat exch. liquid)
R8T	Thermistor (Heat exch. gas upper)
R9T	Thermistor (Heat exch. gas lower)
R10T	Thermistor (Suction)
R11T	Thermistor (Heat exch. de-icer)
R12T	Thermistor (Suction compressor)

Part n°	Description
R13T	Thermistor (Receiver gas)
R15T	Thermistor (M1C body)
R21T	Thermistor (M1C discharge pipe)
S1NPH	High pressure sensor
S1NPL	Low pressure sensor
S1PH	High pressure switch
SEG* (A1P)	7-segment display
SFB	# Mechanical ventilation error input
T1A	Current sensor
X*A	Connector
X*M	Terminal strip
Y1E	Electronic exp. valve (Heat exch. upper)
Y2E	Electronic exp. valve (Subc. heat exch.)
Y3E	Electronic exp. valve (Heat exch. lower)
Y4E	Electronic exp. valve (Receiver gas)
Y5E	Electronic exp. valve (Inverter cooling)
Y7E	Electronic exp. valve (Liquid injection)
Y2S	Solenoid valve (Liquid pipe)
Y3S	Solenoid valve (HP/LP gas pipe)
Y4S	Solenoid valve (Heat exchanger lower)
Y5S	Solenoid valve (Heat exchanger upper)
Y10S	Solenoid valve (Accu oil return)
Y11S	Solenoid valve (M1C oil return)
Y13S	# Error operation output (SVEO)
Y14S	# Leak sensor output (SVS)
Z* C	Noise filter (ferrite core)

*: optional

#: field supply

4D138281A

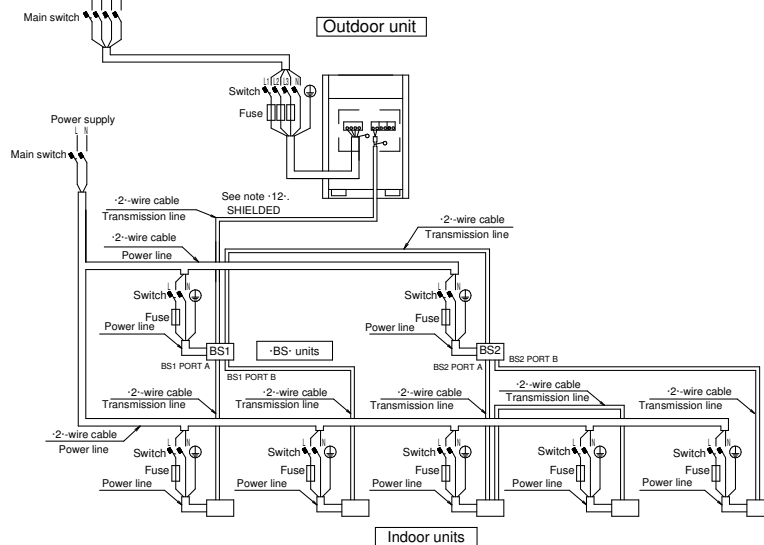
4D138281A

10 External connection diagrams

10 - 1 External Connection Diagrams

REYA-A
REMA5A

VRV5
Heat recovery
External connection diagram



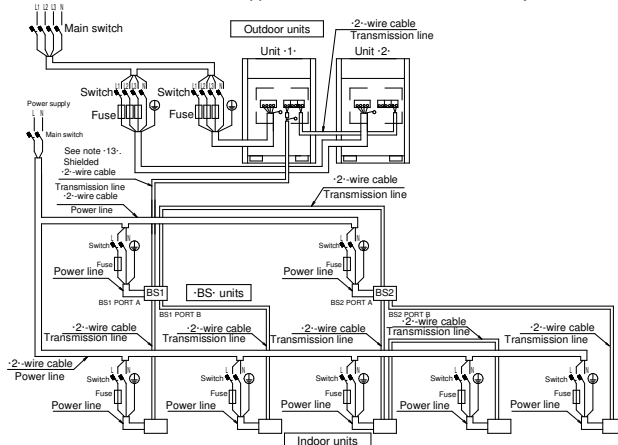
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.
12. See outdoor unit manual for shielding the ·F1F2· wire

3D138298

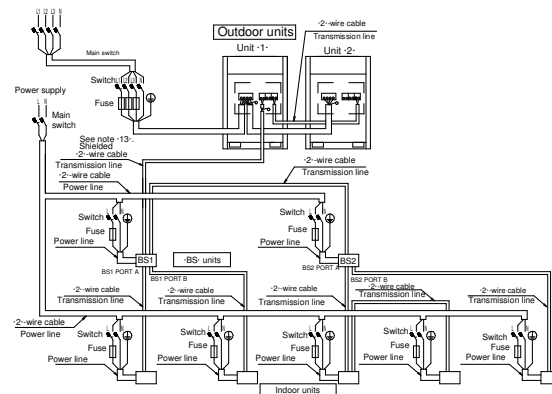
REYA-A
REMA5A

VRV5 Heat recovery
External connection diagram

Power source is supplied to each outdoor unit individually.



Power source is connected in series between the units.



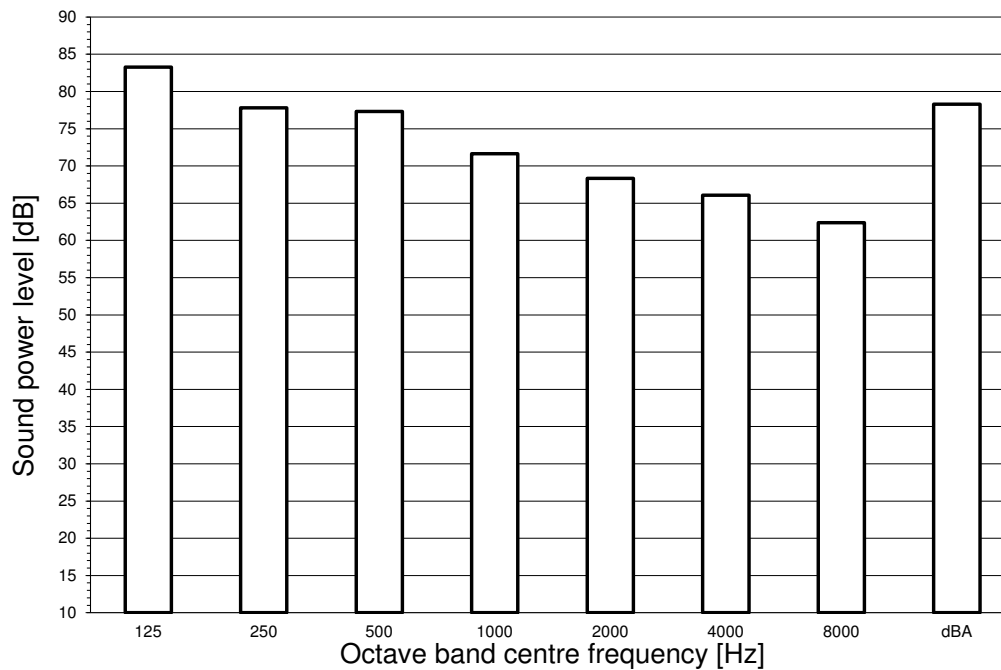
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main to switch to (if necessary) immediately interrupt all the system's power sources.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
Running the product in reversed phase may break the compressor and other parts.
11. Install an earth leakage circuit breaker.
12. The capacity of UNIT1 must be larger than that of UNIT2 when the power source is connected in series between the units.
13. See outdoor unit manual for shielding the ·F1F2· wire

3D141220

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

REYA8A
REMA5A

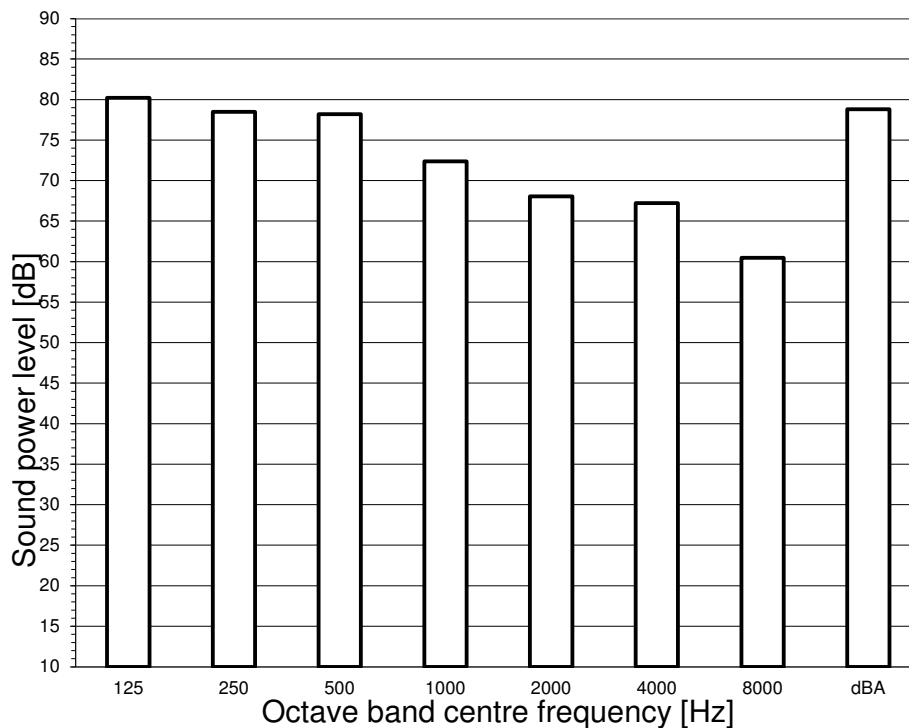


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10^{-12}$ W
- Measured according to ISO 3744

3D138299

REYA10A



Notes

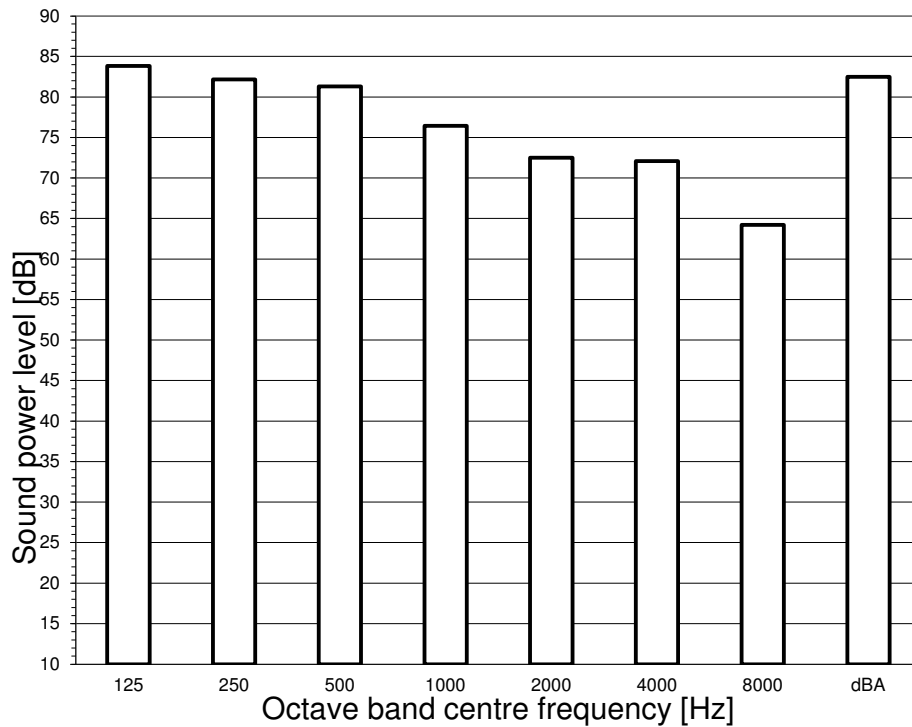
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10^{-12}$ W
- Measured according to ISO 3744

3D141170

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

REYA12A

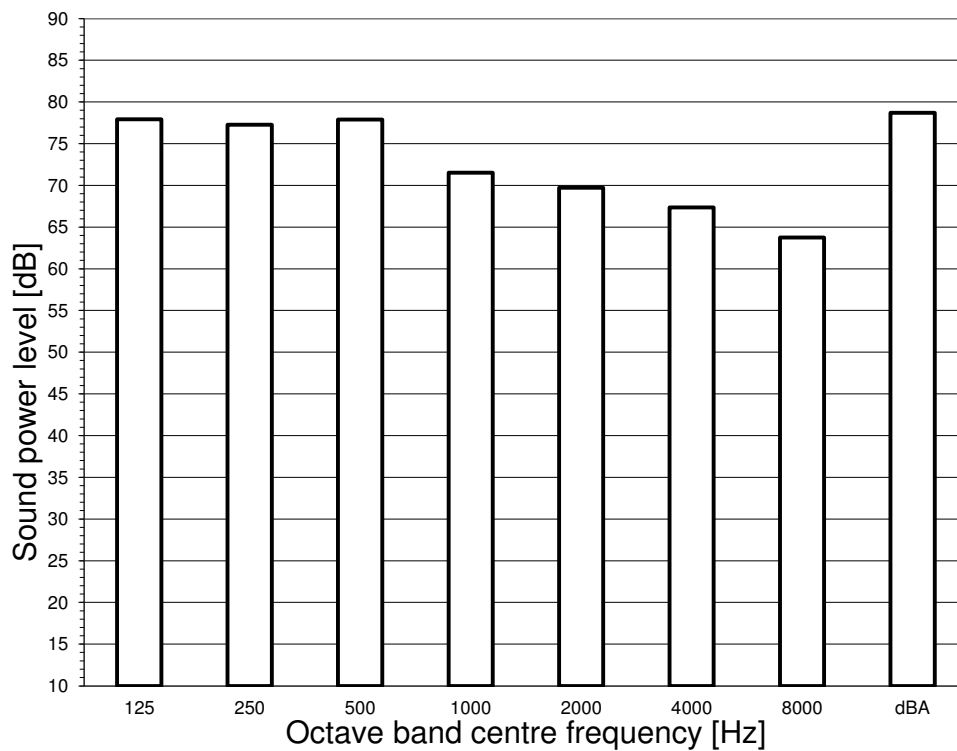


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141171

REYA14A



Notes

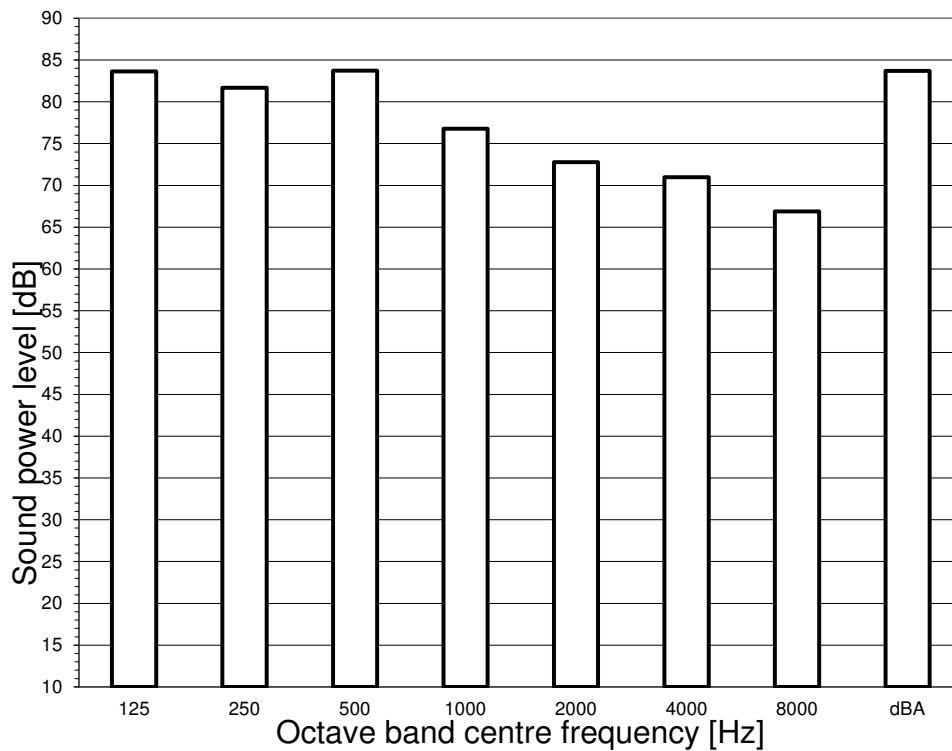
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141172

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

REYA16A

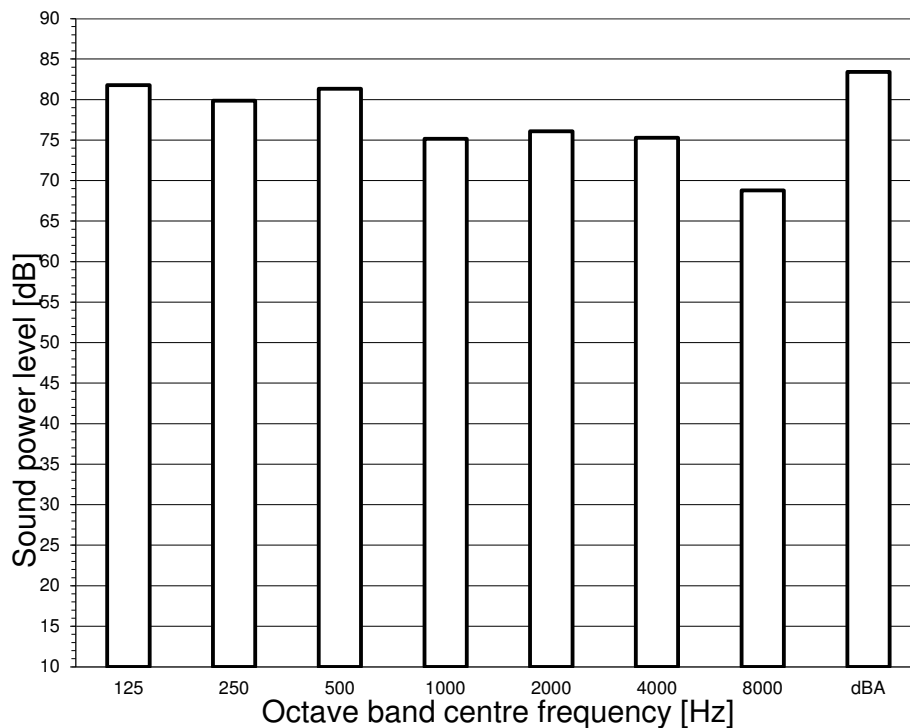


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141173

REYA18A



Notes

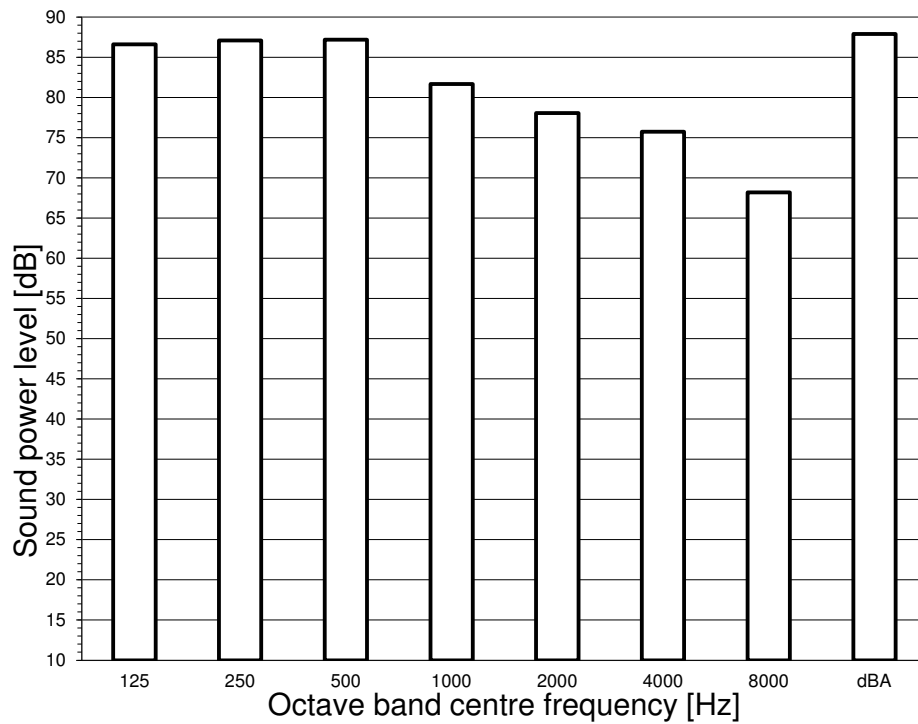
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141174

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

REYA20A



Notes

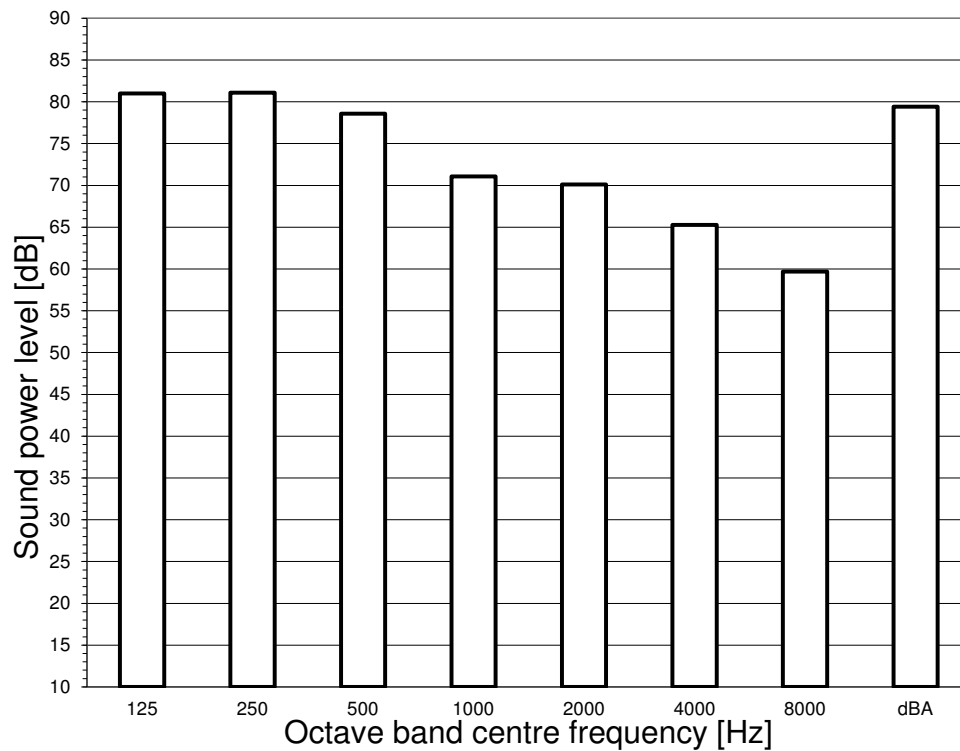
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141175

11 Sound data

11 - 2 Sound Power Spectrum - Heating

REYA8A
REMA5A

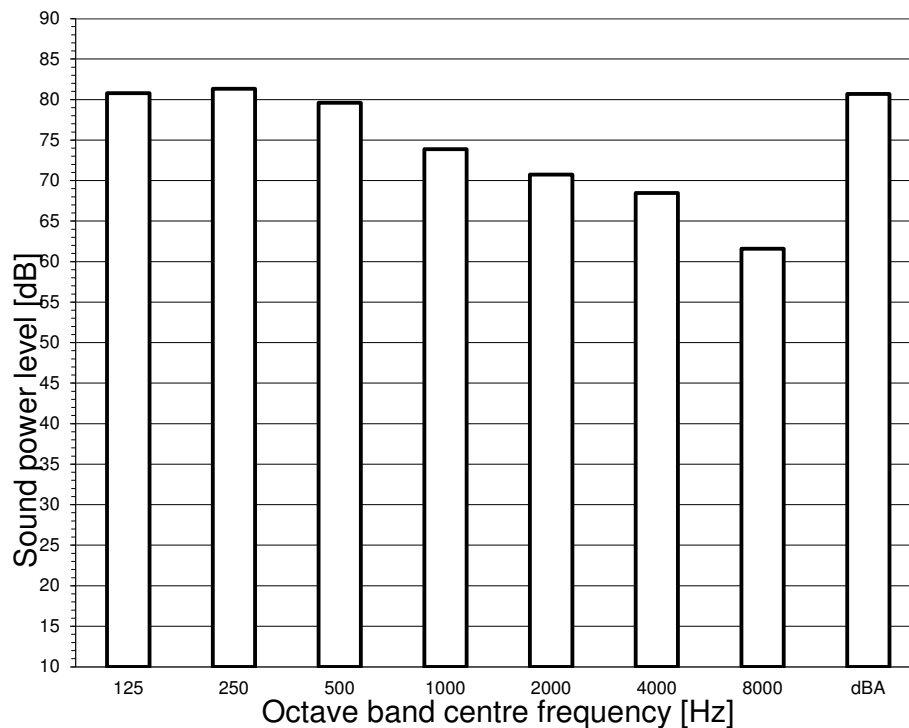


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W}$.
- Measured according to ISO 3744

3D138299

REYA10A



Notes

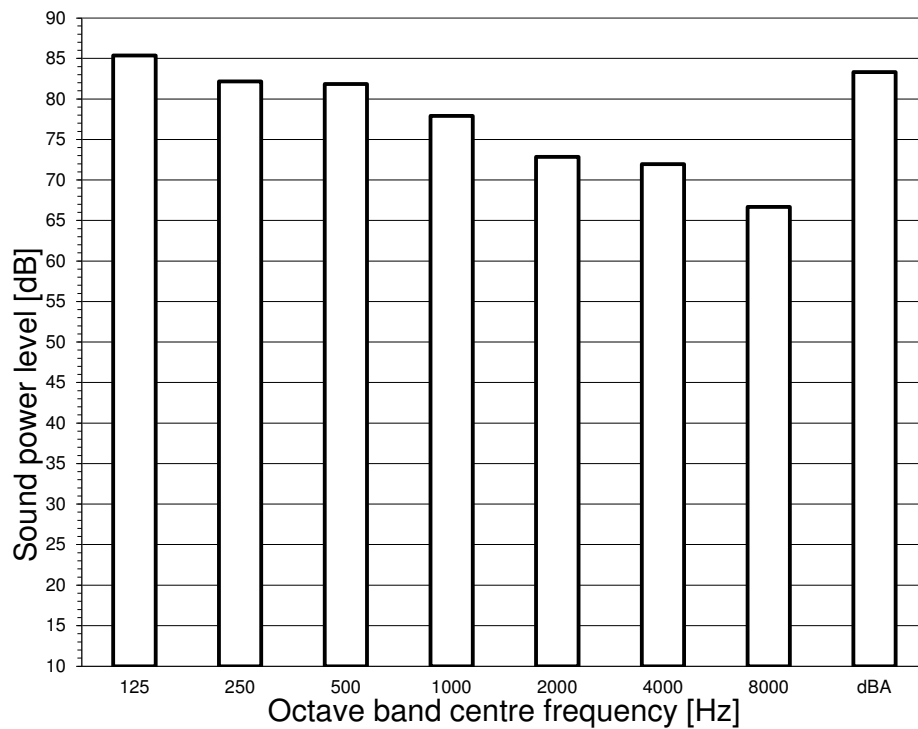
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W}$.
- Measured according to ISO 3744

3D141170

11 Sound data

11 - 2 Sound Power Spectrum - Heating

REYA12A

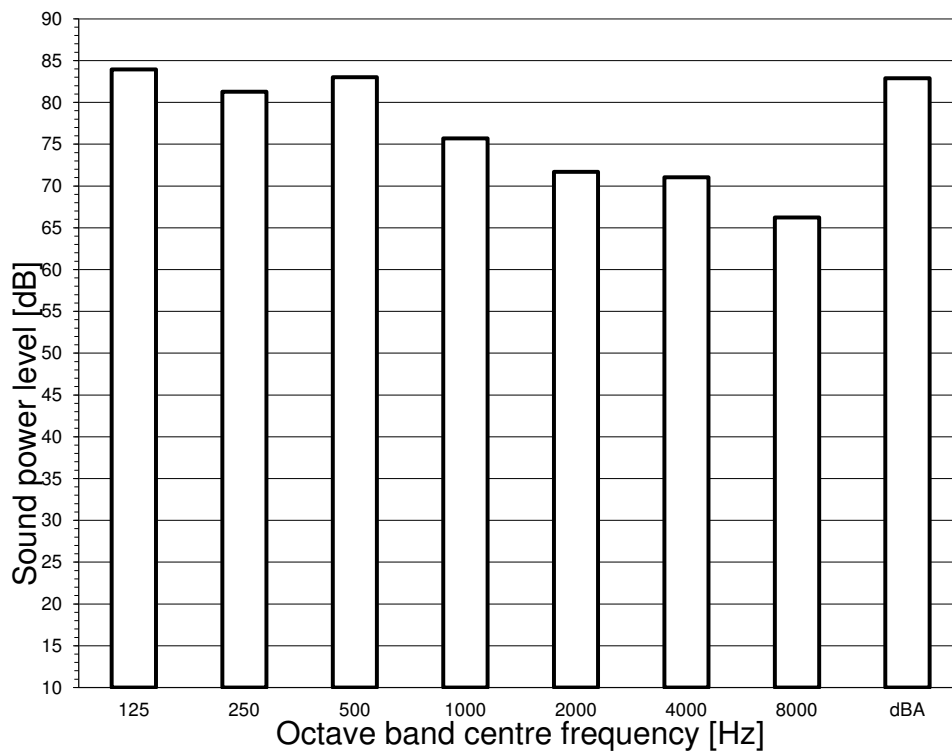


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141171

REYA14A



Notes

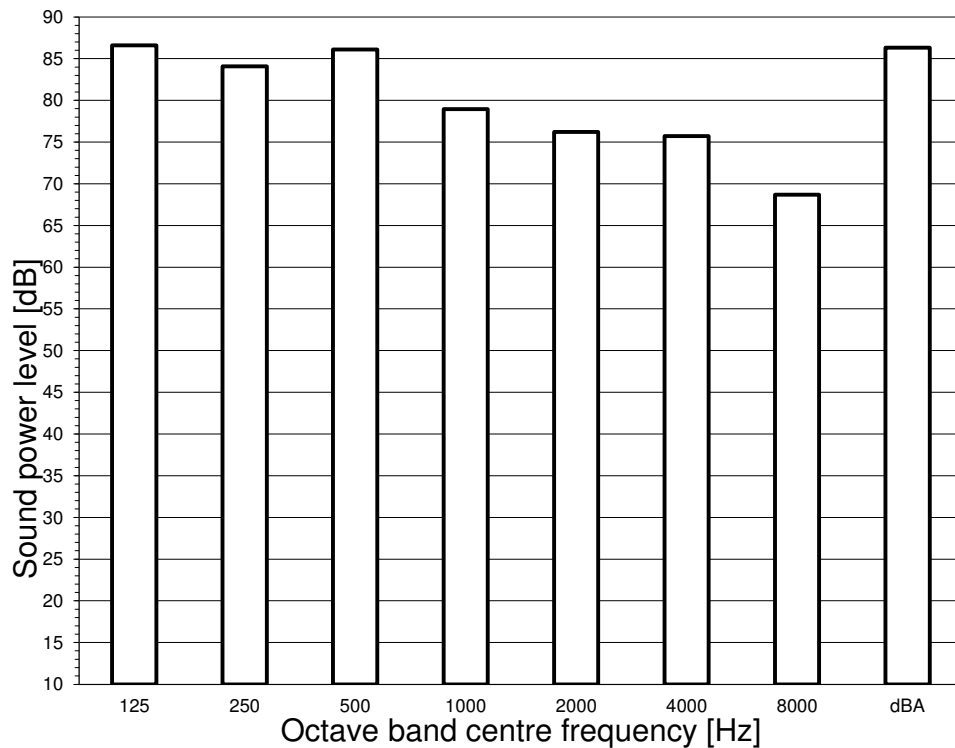
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W.
- Measured according to ISO 3744

3D141172

11 Sound data

11 - 2 Sound Power Spectrum - Heating

REYA16A

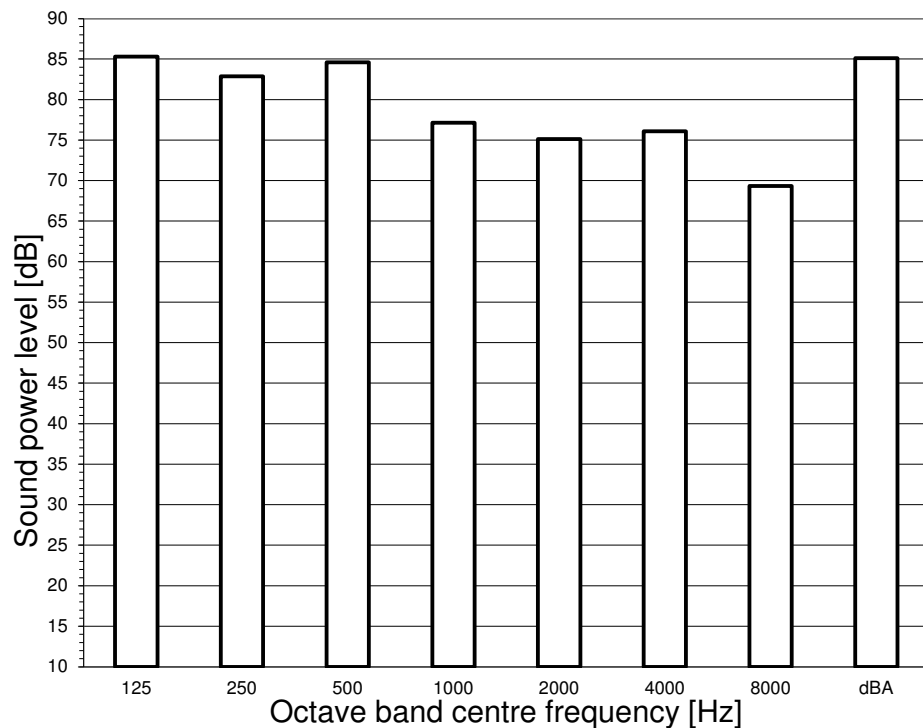


Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10^{-12}$ W.
- Measured according to ISO 3744

3D141173

REYA18A



Notes

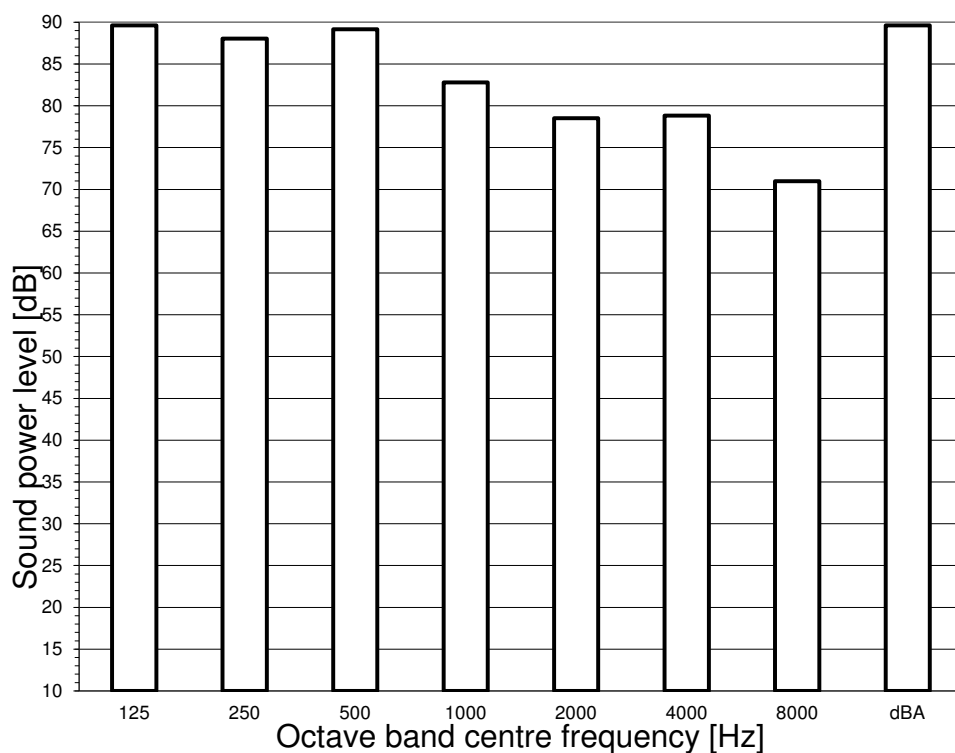
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = $\cdot 10^{-12}$ W.
- Measured according to ISO 3744

3D141174

11 Sound data

11 - 2 Sound Power Spectrum - Heating

REYA20A



Notes

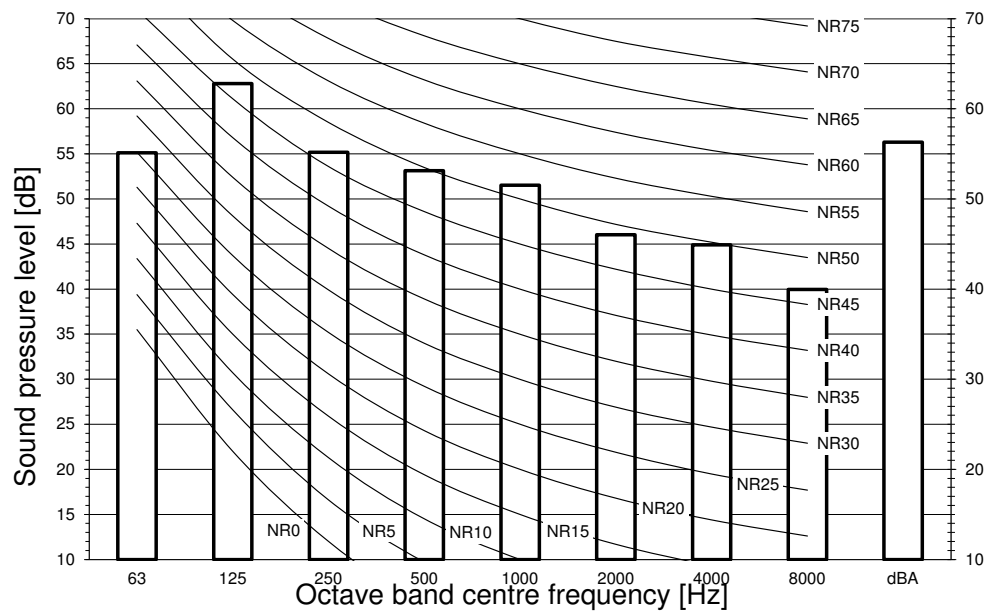
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10^{-12} W
- Measured according to ISO 3744

3D141175

11 Sound data

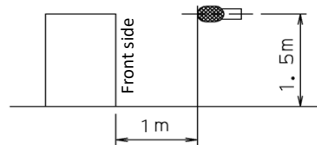
11 - 3 Sound Pressure Spectrum - Cooling

REYA8A
REMA5A



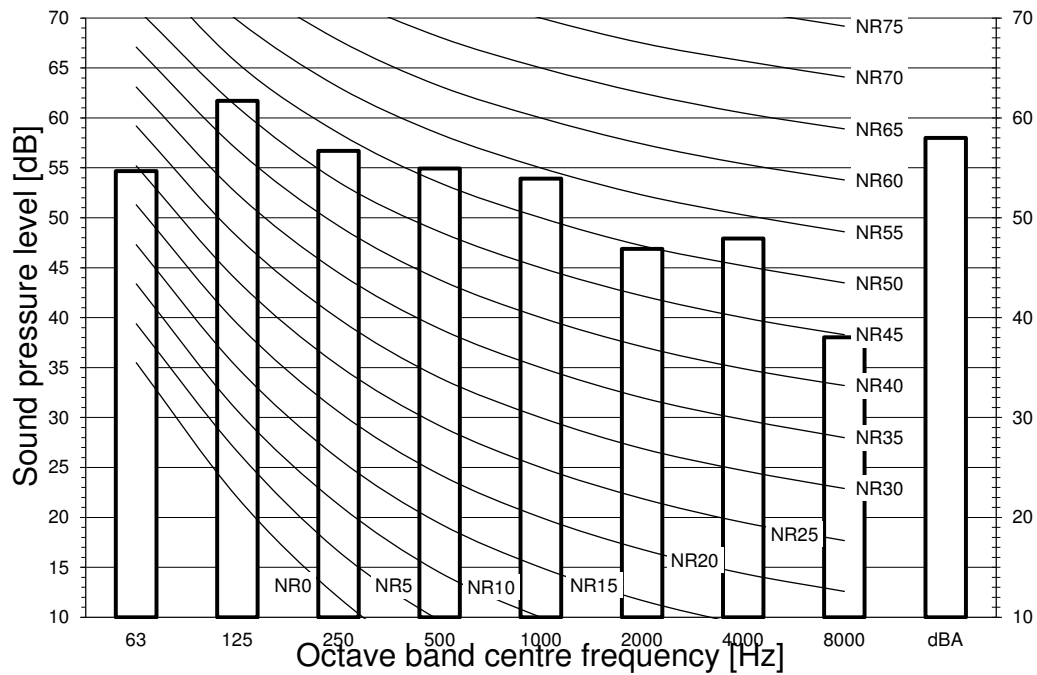
Notes

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



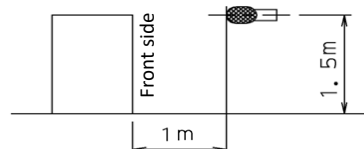
3D138299

REYA10A



Notes

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

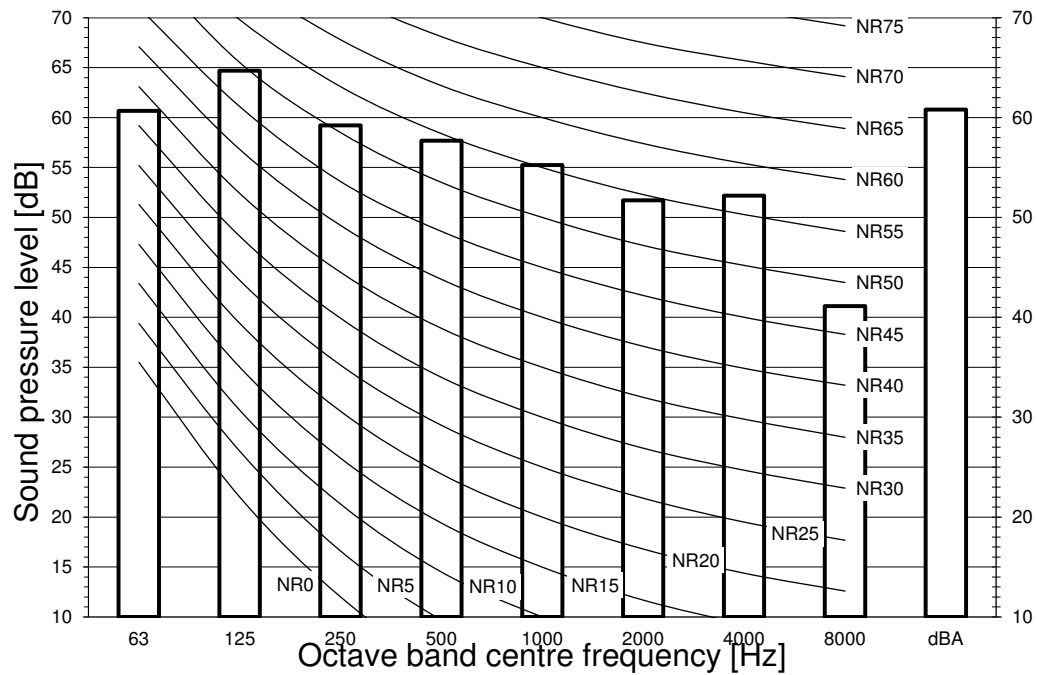


3D141170

11 Sound data

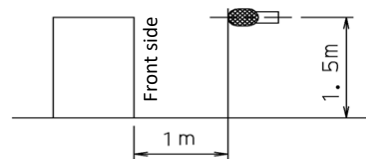
11 - 3 Sound Pressure Spectrum - Cooling

REYA12A



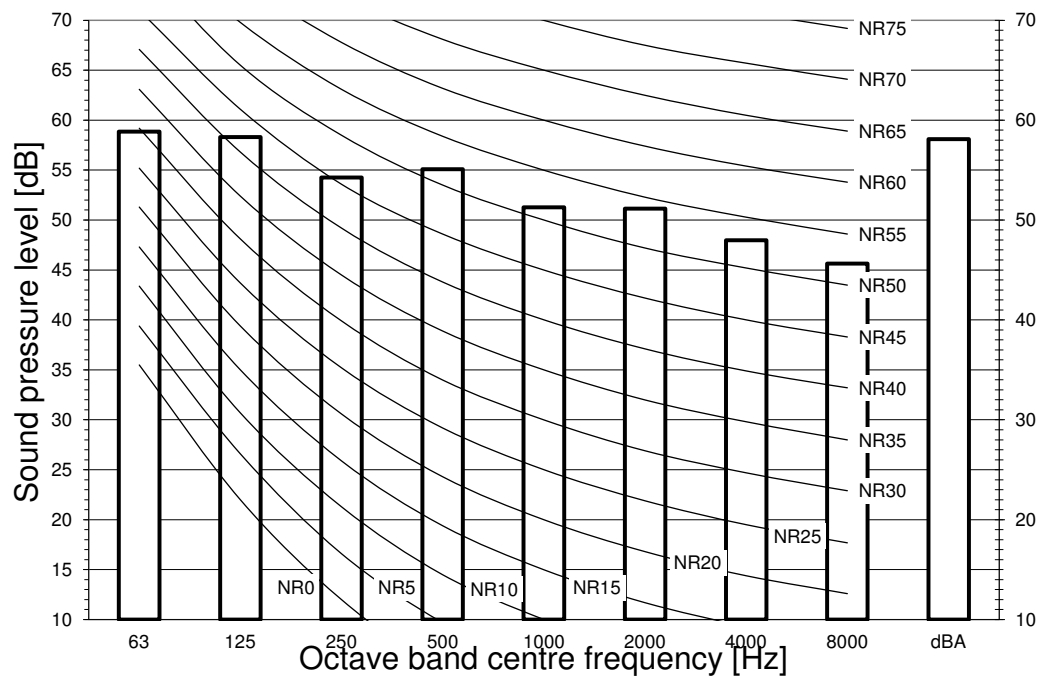
Notes

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



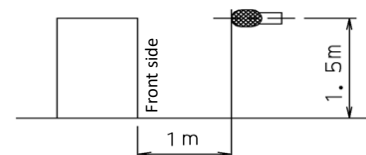
3D141171

REYA14A



Notes

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

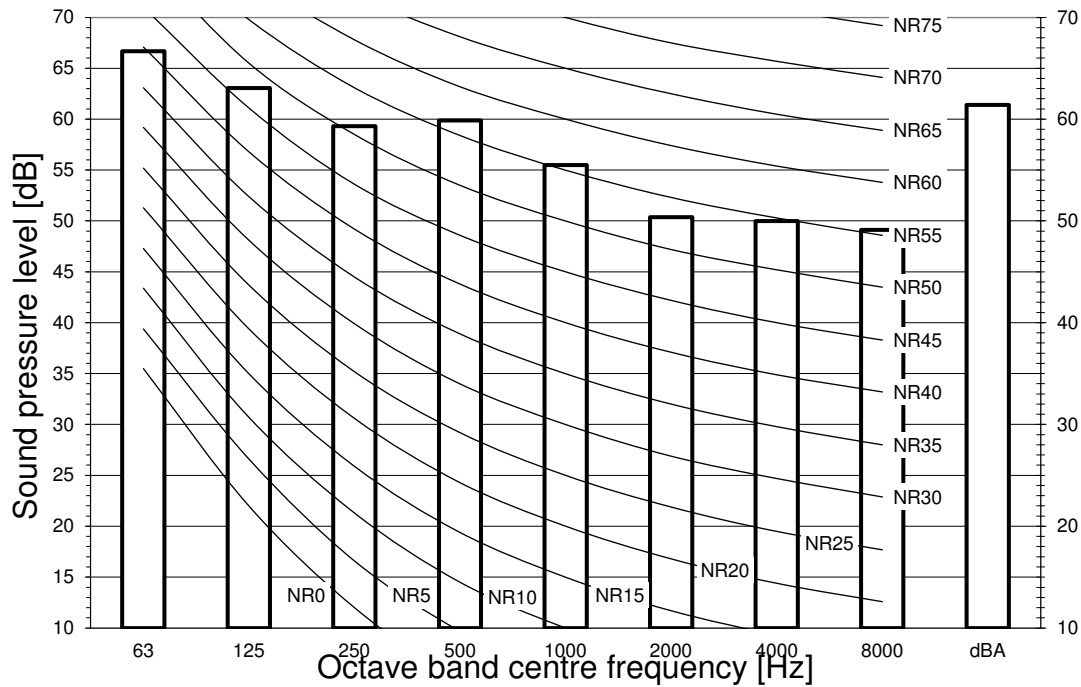


3D141172

11 Sound data

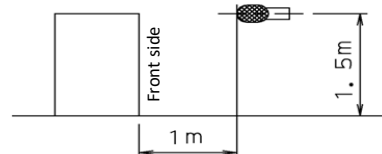
11 - 3 Sound Pressure Spectrum - Cooling

REYA16A



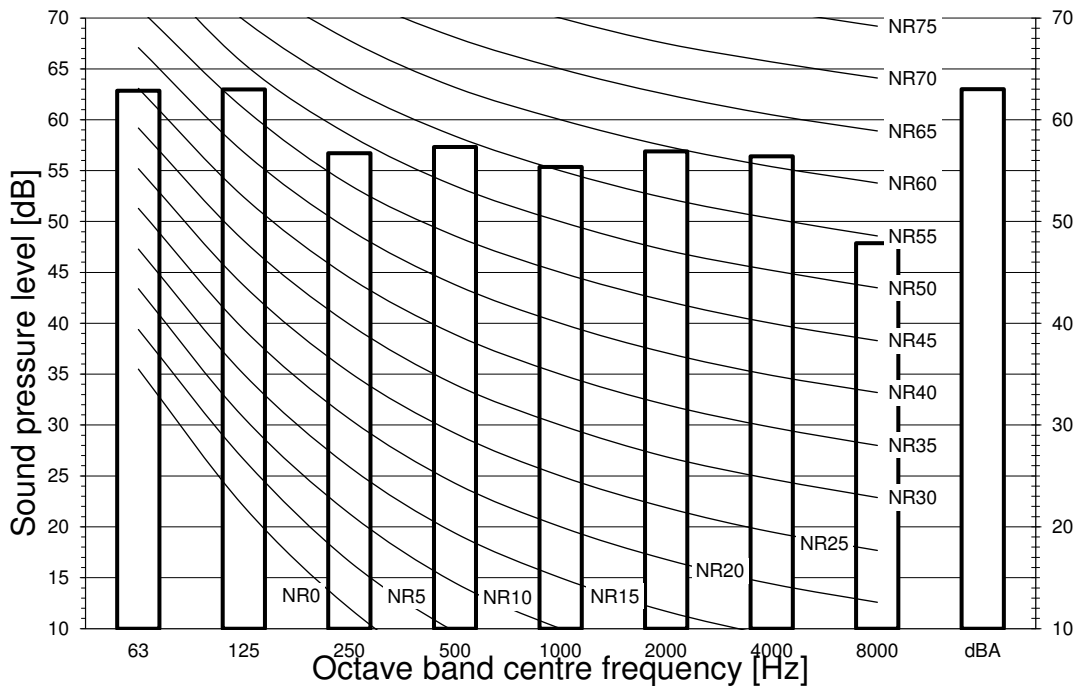
Notes

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



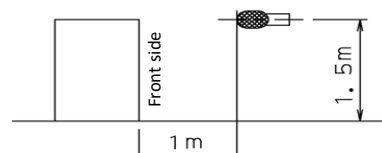
3D141173

REYA18A



Notes

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

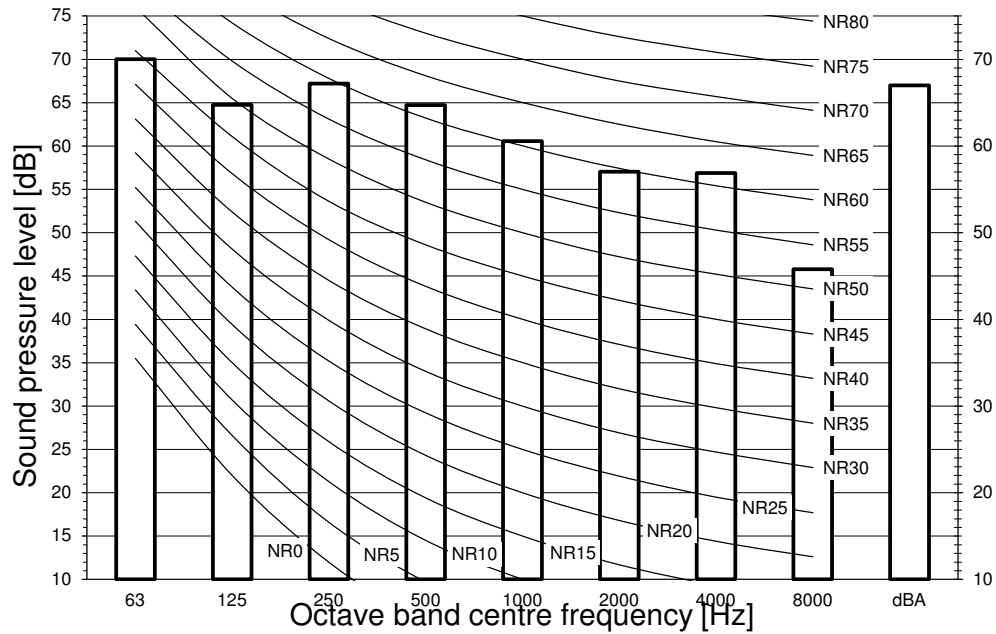


3D141174

11 Sound data

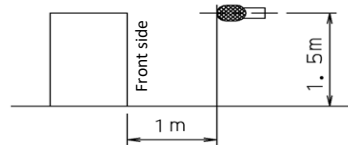
11 - 3 Sound Pressure Spectrum - Cooling

REYA20A



Notes

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

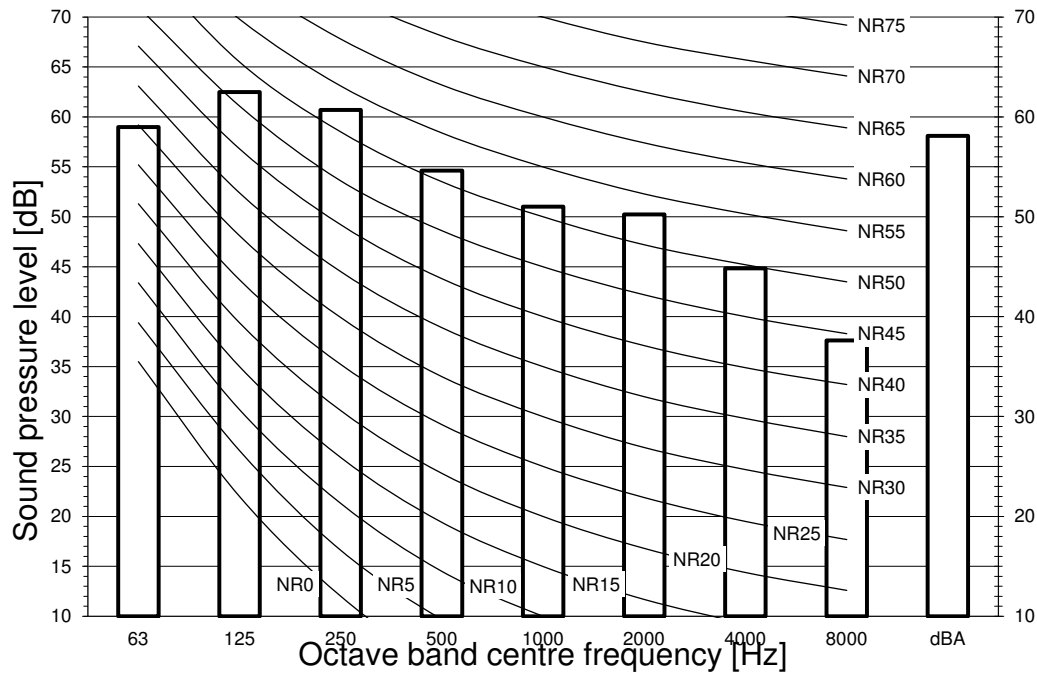


3D141175

11 Sound data

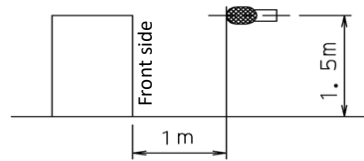
11 - 4 Sound Pressure Spectrum - Heating

REMA5A
REYA8A



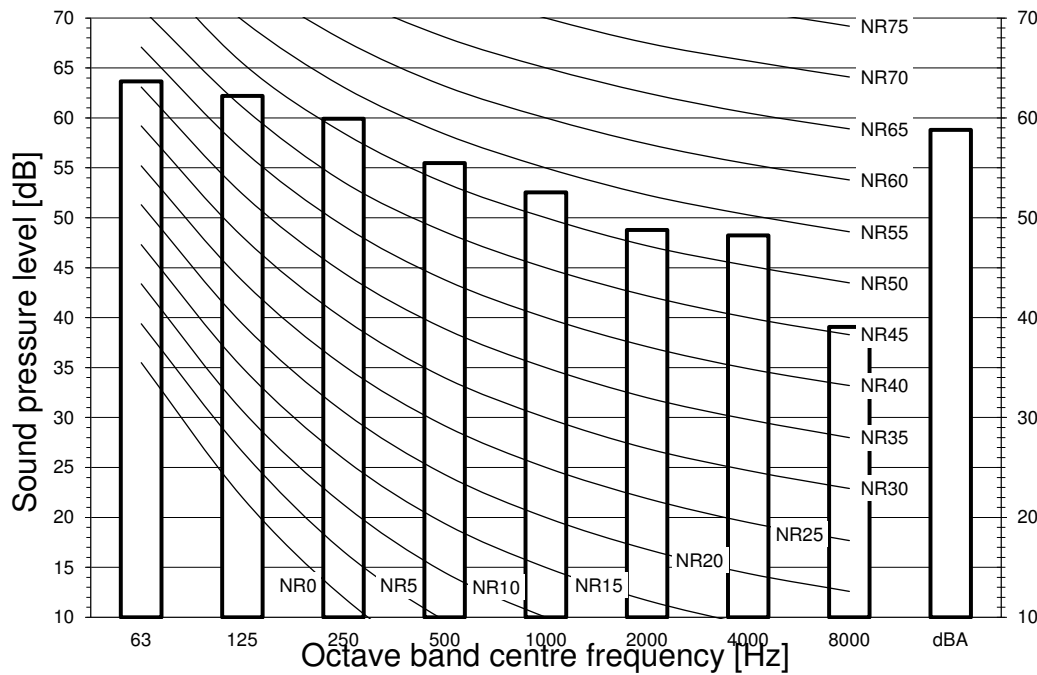
Notes

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



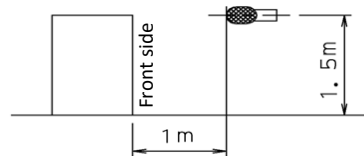
3D138299

REYA10A



Notes

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

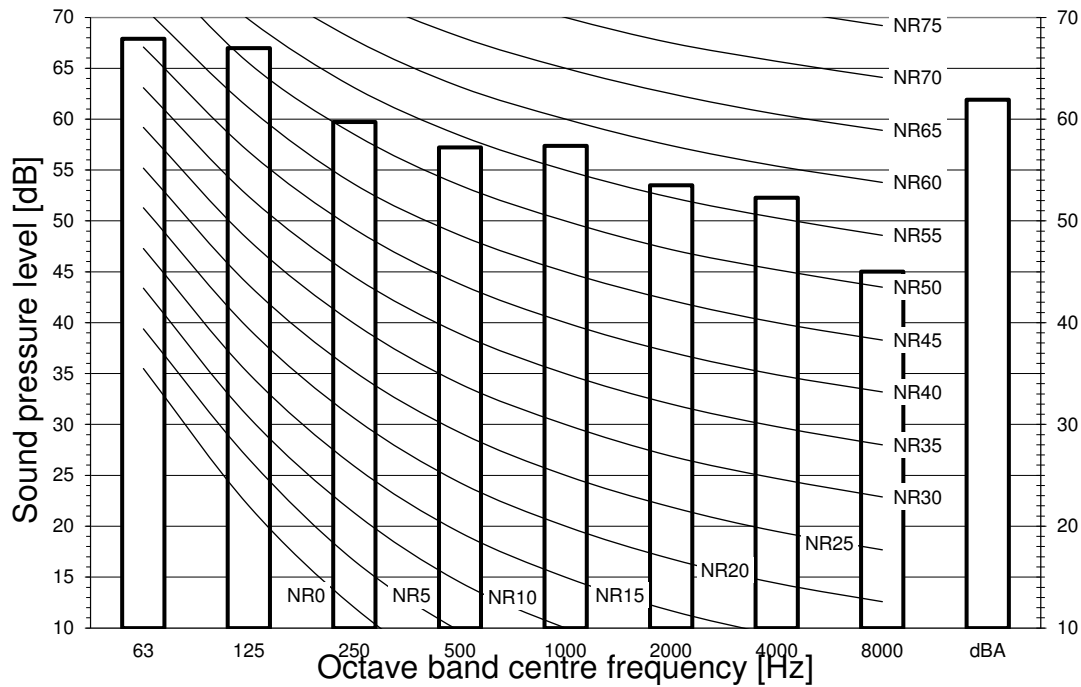


3D141170

11 Sound data

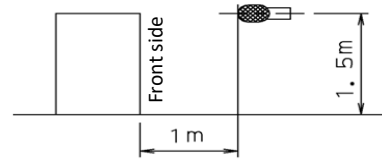
11 - 4 Sound Pressure Spectrum - Heating

REYA12A



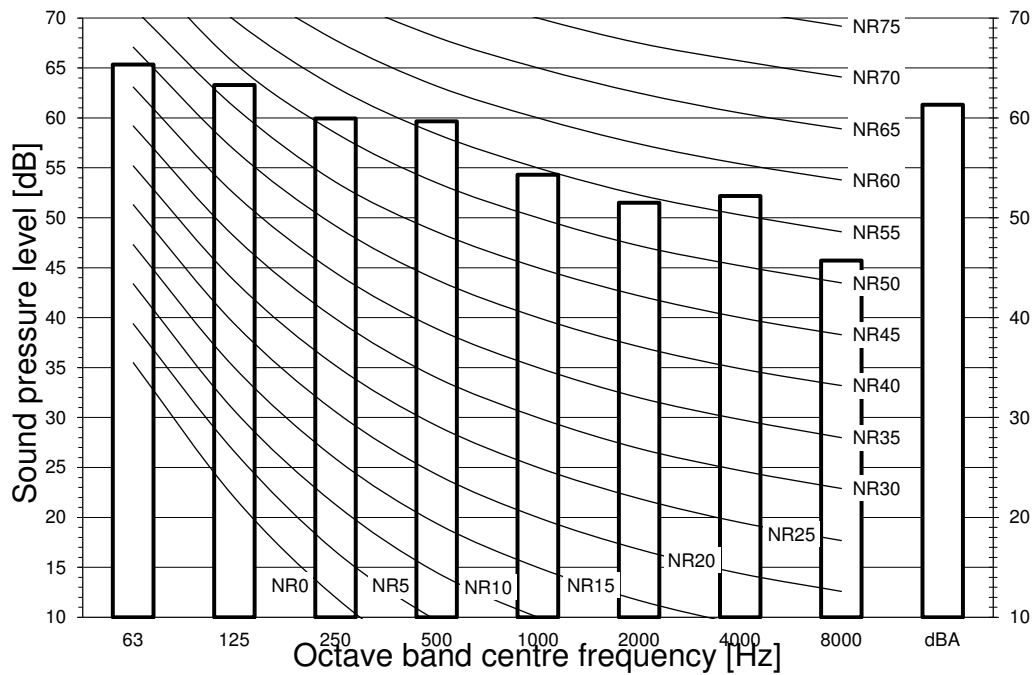
Notes

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



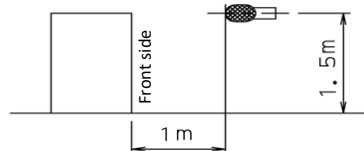
3D141171

REYA14A



Notes

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

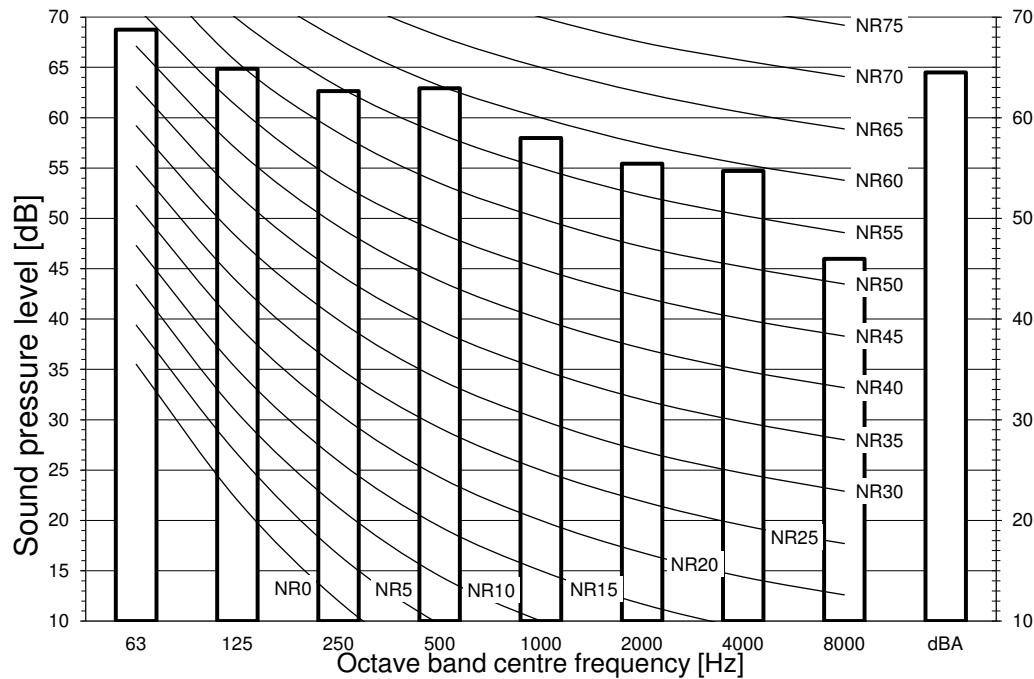


3D141172

11 Sound data

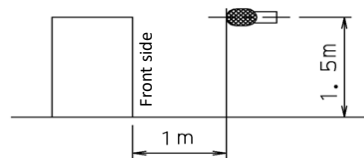
11 - 4 Sound Pressure Spectrum - Heating

REYA16A



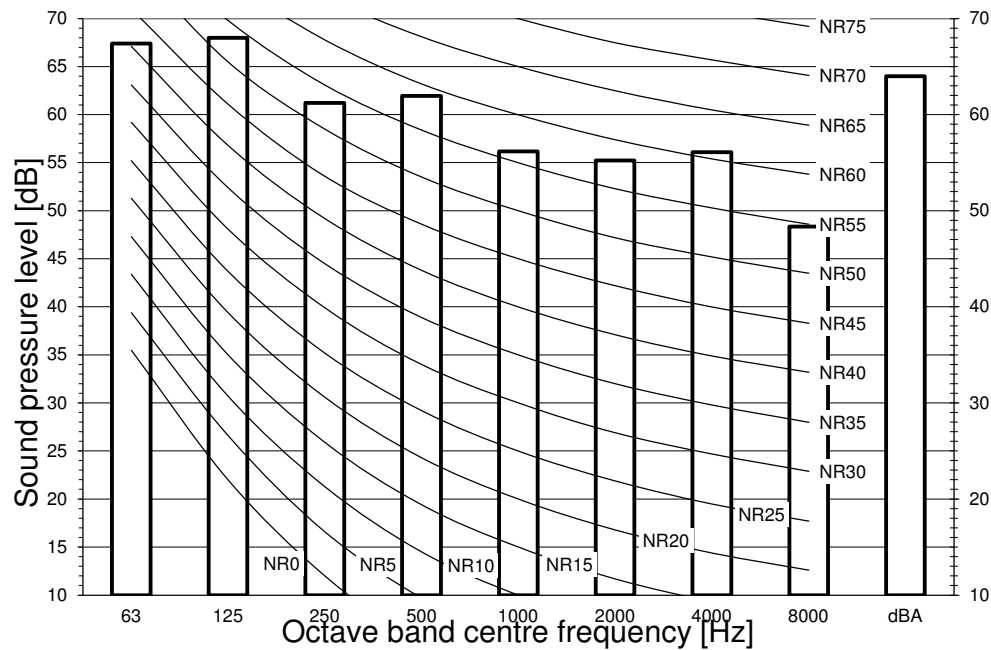
Notes

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



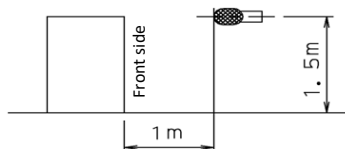
3D141173

REYA18A



Notes

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

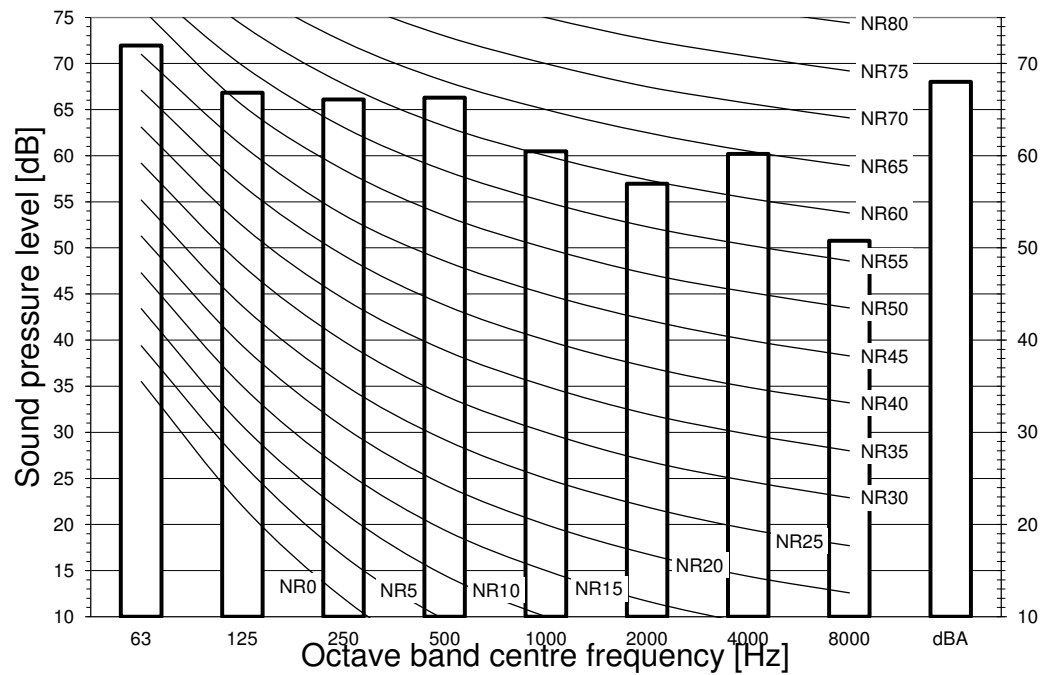


3D141174

11 Sound data

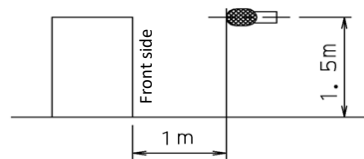
11 - 4 Sound Pressure Spectrum - Heating

REYA20A



Notes

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



3D141175

11 Sound data

11 - 5 Sound level data Quiet mode

REYA-A
REMA5A

VRV-5 Heat recovery
Low noise data (level ·1-5·)

	Capacity ratio
LN1	90%
LN2	75%
LN3	60%
LN4	45%
LN5	30%

5HP/ 8HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	75	53	76	55
LN2	72	50	73	52
LN3	69	47	70	49
LN4	66	44	67	46
LN5	63	41	64	43

10HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	76	55	78	56
LN2	73	52	75	53
LN3	70	49	72	50
LN4	67	46	69	47
LN5	64	43	66	44

12HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	79	58	80	58
LN2	76	55	77	55
LN3	73	52	74	52
LN4	70	49	71	49
LN5	67	46	68	46

14HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	76	53	81	58
LN2	73	50	78	55
LN3	70	47	75	52
LN4	67	44	72	49
LN5	64	41	69	46

16HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	81	58	84	62
LN2	78	55	82	59
LN3	75	52	80	56
LN4	72	49	77	53
LN5	69	46	74	50

4D141207

11 Sound data

11 - 5 Sound level data Quiet mode

REYA-A
REMA5A

11

18HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	81	60	83	61
LN2	78	57	81	58
LN3	76	54	78	55
LN4	74	51	75	52
LN5	71	48	72	49

20HP	Cooling		Heating	
	Sound power [dBA]	Sound pressure [dBA]	Sound power [dBA]	Sound pressure [dBA]
LN1	85	64	87	65
LN2	82	61	84	62
LN3	80	58	81	59
LN4	77	55	79	56
LN5	74	52	77	53

LN1: Low noise level ·1·
LN2: Low noise level ·2·
LN3: Low noise level ·3·
LN4: Low noise level ·4·
LN5: Low noise level ·5·

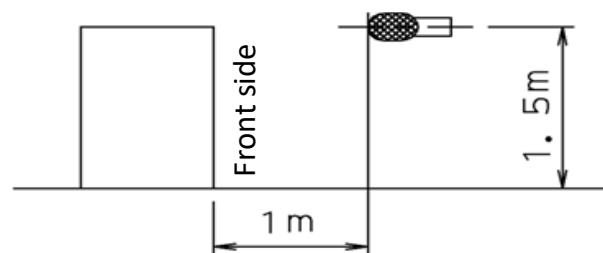
Notes

Sound power

dBA = A-weighted sound power level (A scale according to IEC).
Reference acoustic intensity $0\text{dB} = 10^{-12} \text{ W}$.
Measured according to ISO 3744

sound pressure

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



4D141207

11 Sound data

11 - 6 Sound power level at high ESP

REYA-A
REMA5A

VRV-5 Heat recovery
High ESP

	Cooling	Heating
	Sound power [dBA]	Sound power [dBA]
5HP	81	84
8HP	81	84
10HP	81	84
12HP	81	84
14HP	83	85
16HP	87	89
18HP	87	89
20HP	88	90

Sound power is measured on a freestanding unit.
Actual sound is depending on the installation of the duct.

3D141183

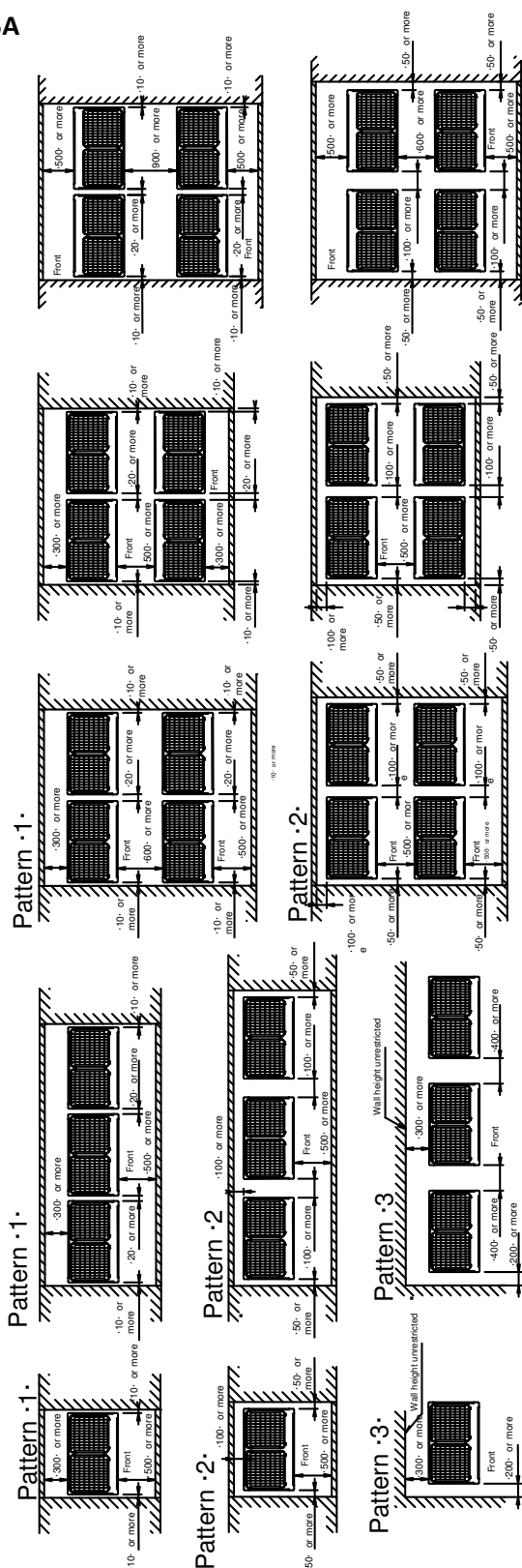
12 Installation

12 - 1 Installation Method

REYA-A
REMA5A

For centralised group layout

For single unit installation For installation in rows



Notes

1. Height of the walls in case of patterns ·1· and ·2·:

Front: ·1500·mm

Suction side: 500·mm

Side: height unrestricted

The installation space shown on this drawing is based on cooling operation at +35°C (outdoor temperature).

When the design outdoor ambient temperature exceeds 35°C or the load exceeds maximum ability of much generation load of heat in all outdoor unit, make sure the suction-side space is broader than the space shown on this drawing.

2. If the walls are higher than mentioned above, then additional service space is needed:

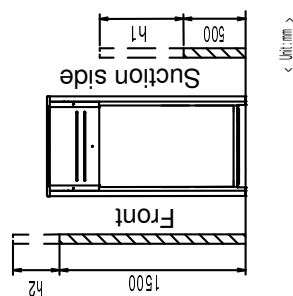
- suction side: service space + $h_{1/2}$
- front side: service space + $h_{2/2}$

3. When installing the units, select the pattern that best fits the available space.

Always keep in mind to leave sufficient space for a person to pass between unit and wall and or the air to circulate freely.

Provide sufficient space at the front to connect refrigerant piping (comfortably).

1. If more units are to be installed than are catered for in the above patterns, your layout should take into account the possibility of short circuits.

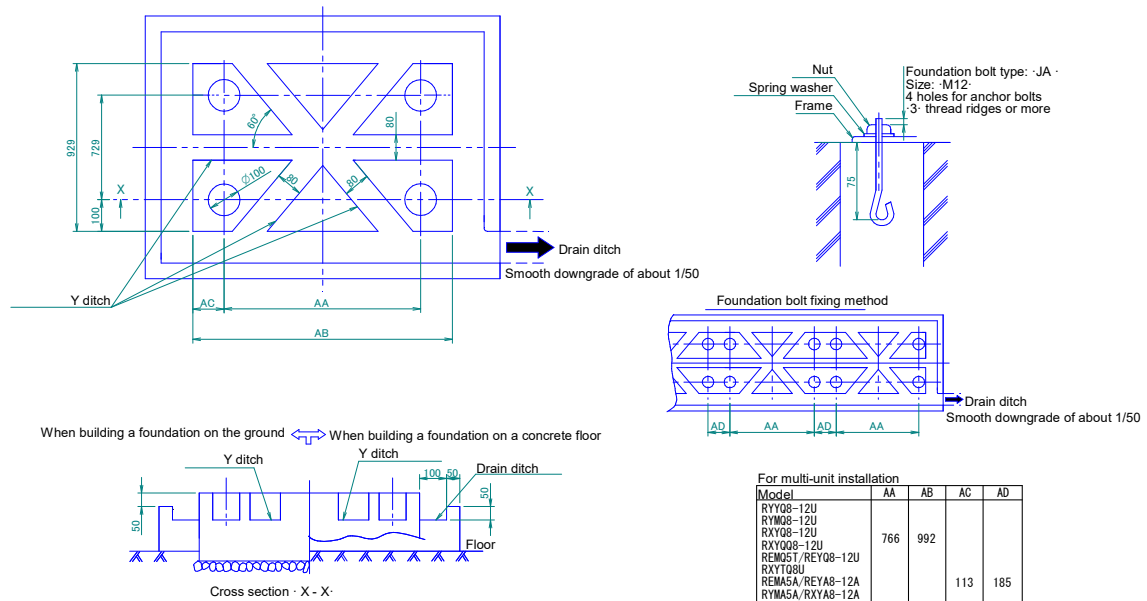


3D118467A

12 Installation

12 - 2 Fixation and Foundation of Units

REYA-A
REMA5A



Notes

- 1 Provide a drain ditch around the foundation to drain water from the installation area.
- 2 The surface has to be finished with mortar. The corner edges have to be chamfered.
- 3 Build the foundation on a concrete floor or, if not possible, make sure the foundation surface has a rough finish.
- 4 Use a cement/sand/gravel ratio of 1/2/4 for the concrete, and a diameter of 10 mm for the reinforcement bars (approximately, 300mm intervals).
- 5 When installing the equipment on a roof, make sure to check the strength of the floor and take adequate water proofing measures.

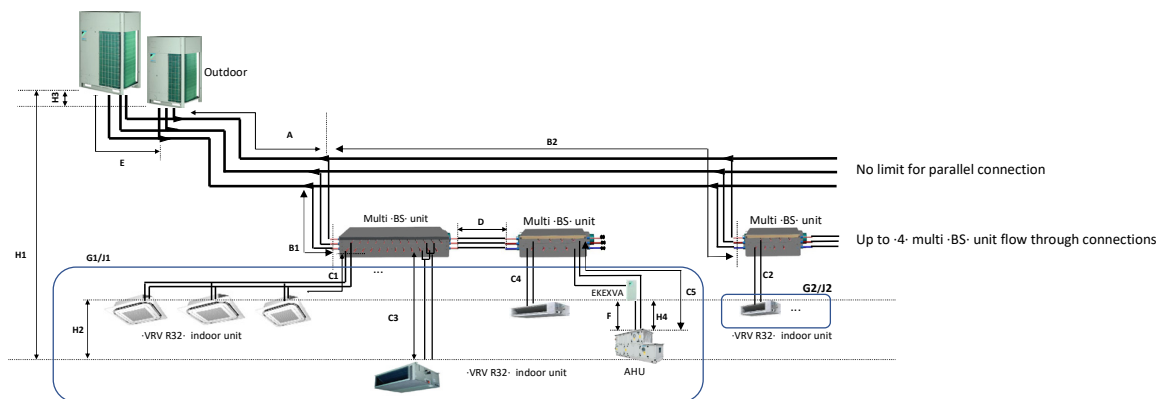
3D118459B

12 Installation

12 - 3 Refrigerant Pipe Selection

REYA-A
REMA5A

12



4D141190A

RAYA-A
REMA5A

VRV5
Heat recovery
Piping restrictions

	Total				Allowed capacity	
	Capacity	Maximum indoor unit quantity	Maximum total downstream capacity — flow through connection -BS- unit	Maximum downstream number of ports — flow through connection -BS- unit	VRV indoor unit	Air handling unit (AHU)
		(*)1	[G1]; [G2]	[J1]; [J2]		
-VRV R32- indoor units only	50 ~ 130%	64	750	16	50 ~ 130%	-
AHU only (-EKEKVA + EKEACBVE-)	-	-	-	-	-	-
Pair (*)5	-	-	-	-	-	-
AHU only (-EKEKVA + EKEACBVE-)	-	-	-	-	-	-
Multi (*)5)(*)7	65/75 ^(*)3) ~ 110% ^(*)4)	64 ^(*)8)	750	16	-	65/75 ^(*)3) ~ 110% ^(*)4)
-VRV R32 DX- indoor unit + AHU(EKEKVA + EKEACBVE-)	50 ~ 110% ^(*)4)	64 ^(*)8)	750	16	50 ~ 110%	0 ~ 60% ^(*)4)
Mix (*)5)(*)7	-	-	-	-	-	-

Notes

- Excluding -BS- units
- Other combinations than mentioned in this combination table are prohibited. All units are to be connected to -BS- units
- 75% ~ 110%: default situation
-65% ~ 75%: Allowed if stricter AHU volume limitations are valid. Refer to the databook of -EKEACBVE- for details.
- Restrictions regarding the air handling unit capacity
- Pair AHU = system with 1 air handling unit connected to one outdoor unit system
Multi AHU = system with multiple air handling units connected to one outdoor unit system
Mixed AHU = mix of AHU units and -VRV- indoor units connected to one outdoor system
- Z,Z'-control is possible (the allowed number of [-EKEKVA + EKEACBVE- boxes] is determined by the connection ratio and the capacity of the outdoor unit.
- Z,Z'-control is possible (-EKEACBVE- boxes are allowed).
- EKEKVA- kits are also considered indoor units.

Amount of units connectable to a -BS- unit

	BS4A (*)9)	BS6A (*)9)	BS8A (*)9)	BS10A (*)9)	BS12A (*)9)	Multi -BS- per branch (*)9)	Multi -BS- when 2 branches are combined (*)9)
-VRV R32- indoor unit	Maximum -20- units	Maximum -30- units	Maximum -40- units	Maximum -50- units	Maximum -60- units	Maximum -5- units	Maximum -5- units
Air handling unit (AHU)	Maximum -400- class	Maximum -600- class	Maximum -750- class	Maximum -750- class	Maximum -750- class	Maximum -140- class	Maximum -250- class

Notes

- When combining -2- branches, the maximum piping length between the -BS- unit and the indoor unit is ≤ 20m. If the length of this piping is > 20m, increase the size of the liquid pipe.

VRV5
Heat recovery
Unit combination restrictions

Combination table	REYA5-28(*)2)
-VRV R32 DX- indoor unit	O
-EKVDX- (Option of -VAM- J8-)	O
-Cooling only- indoor unit	X
Hydrobox unit	X
AHU only (Pair (-EKEKVA + EKEACBVE-))	X
AHU only (Multi (-EKEKVA + EKEACBVE-))	O
-VRV R32 DX- indoor unit + AHU mix (-EKEKVA + EKEACBVE-)	O

O: Allowed
X: Not allowed

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12 - 3 Refrigerant Pipe Selection

REYA-A REMA5A

VRV5 Heat recovery Piping restrictions

		Maximum piping length			Maximum height difference			Total piping length Piping length
		Longest pipe from the outdoor unit or the last multi-outdoor piping branch	Longest pipe after first branch or multi -BS- unit	Longest pipe from the outdoor unit to the last multi-outdoor piping branch	Indoor-to-outdoor Outdoor unit higher than indoor unit / Indoor unit higher than outdoor unit	Indoor-to-indoor	Outdoor-to-outdoor	
		Actual / Equivalent Maximum: $\{A+B1+C1, A+B2+C2, A+B1+C3, A+B1+D+C4, A+B1+D+C5\}$	Actual Maximum: $\{B1+C1, B2+C2, B1+C3, B1+D+C4, B1+D+C5\}$	Actual / Equivalent Maximum: (E)	Maximum: (H1)	Maximum: (H2)	Maximum: (H3)	
Single outdoor units and standard multi-outdoor-unit combinations > 20hp	-VRV DX R32- indoor unit	165/190 m ^(*)	40 m ^(*)	10/13 m	50/40 m ^(*)	15 m	5 m	1000 m
	AHU ^(*)	120/165 m ^(*)	40 m ^(*)		50/40 m ^(*)	30 m		
		165/190 m ^(*)	40 m		50/40 m	15 m		
Standard multi-outdoor-unit combinations < 20hp and free multi-outdoor-unit combinations	-VRV DX R32- indoor unit	135/160 m ^(*)	40 m ^(*)	10/13 m	50/40 m ^(*)	15 m	5 m	500 m
	AHU ^(*)		40 m		50/40 m			

	Maximum piping length	Maximum height difference
	EKEXVA → AHU: (F)	EKEXVA → AHU: (H4)
AHU ^(*)	5 m	5 m

Notes

- If all conditions below are met, the limitation can be extended up to 90 m
 - The piping length between all indoor units and the multi -BS- unit is ≤ 40 m.
 - It is required to size up the liquid piping between the first branch kit or multi -BS- unit and the last branch kit or last multi -BS- unit.
It is not required to size up the liquid piping between the multi -BS- unit and indoor units.
It is required to size up the liquid piping which is downstream of the multi -BS- unit, if the last branch kit is located downstream of the multi -BS- unit.
If the increased pipe size is larger than the pipe size of the main pipe, also increase the size of the main pipe.
 - When the piping size is increased, the piping length has to be counted as double.
The total piping length has to be within limitations.
 - The piping length difference between the nearest indoor unit to the outdoor unit and the farthest indoor unit to the outdoor unit is ≤ 40 m.
- If all conditions below are met, the limitation can be extended up to 90 m
 - If the outdoor units are positioned higher than the indoor units:
 - 2.1.1 Minimum connection ratio: 80%
 - 2.1.2 Size up the liquid piping
 - 2.1.3 Outdoor unit setting
For more information, refer to the service manual.
 - If the outdoor units are positioned lower than the indoor units:
 - 2.2.1 Size up the liquid piping
 - 2.2.2 Outdoor unit setting
For more information, refer to the service manual.
- If the equivalent piping is > 90 m, size up the main liquid piping.
- Limit of 40 m piping length between multi -BS- unit and indoor unit is depending upon room size (cfr. Safety system)
- Possible combinations
 - Multi -AHUs
 - Mix of -DX- units and -AHUs-

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12 - 4 Refrigerant Charge Information

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Requirements for R32 units

To comply with the requirements of enhanced tightness refrigerating systems of the IEC 60335-2-40:2018, this system is equipped with shut-off valves in the ·BS· unit and an alarm in the remote controller.

The ·BS· unit is prearranged for a ventilated enclosure as countermeasure.

Outdoor unit installation

The outdoor unit has to be installed outside. For indoor installation of the outdoor unit, additional measures can be necessary to comply with the applicable legislation.

Indoor unit installation

The total amount of refrigerant in the system shall be less than or equal to the maximum allowed total refrigerant amount.

The maximum allowed total refrigerant amount depends on the area of the rooms being served by the system and the rooms in the lowest underground floor.

Note: The total refrigerant charge amount in the system MUST always be lower than $\cdot 15.96 \cdot [\text{kg}] \times$ the number of indoor units connected downstream of ·BS· units, with a maximum of $\cdot 63.8 \cdot \text{kg}.$

When the R32 sensor in the indoor unit detects a refrigerant leak, the corresponding shut-off valves in the ·BS· unit close and the alarm in the remote controller connected to the indoor unit is triggered.

Follow the flowchart. Details are described in the manual of the outdoor unit.

Note: The total refrigerant charge amount in the system MUST always be lower than $\cdot 15.96 \cdot [\text{kg}] \times$ the number of indoor units connected downstream of ·BS· units, with a maximum of $\cdot 63.8 \cdot \text{kg}.$

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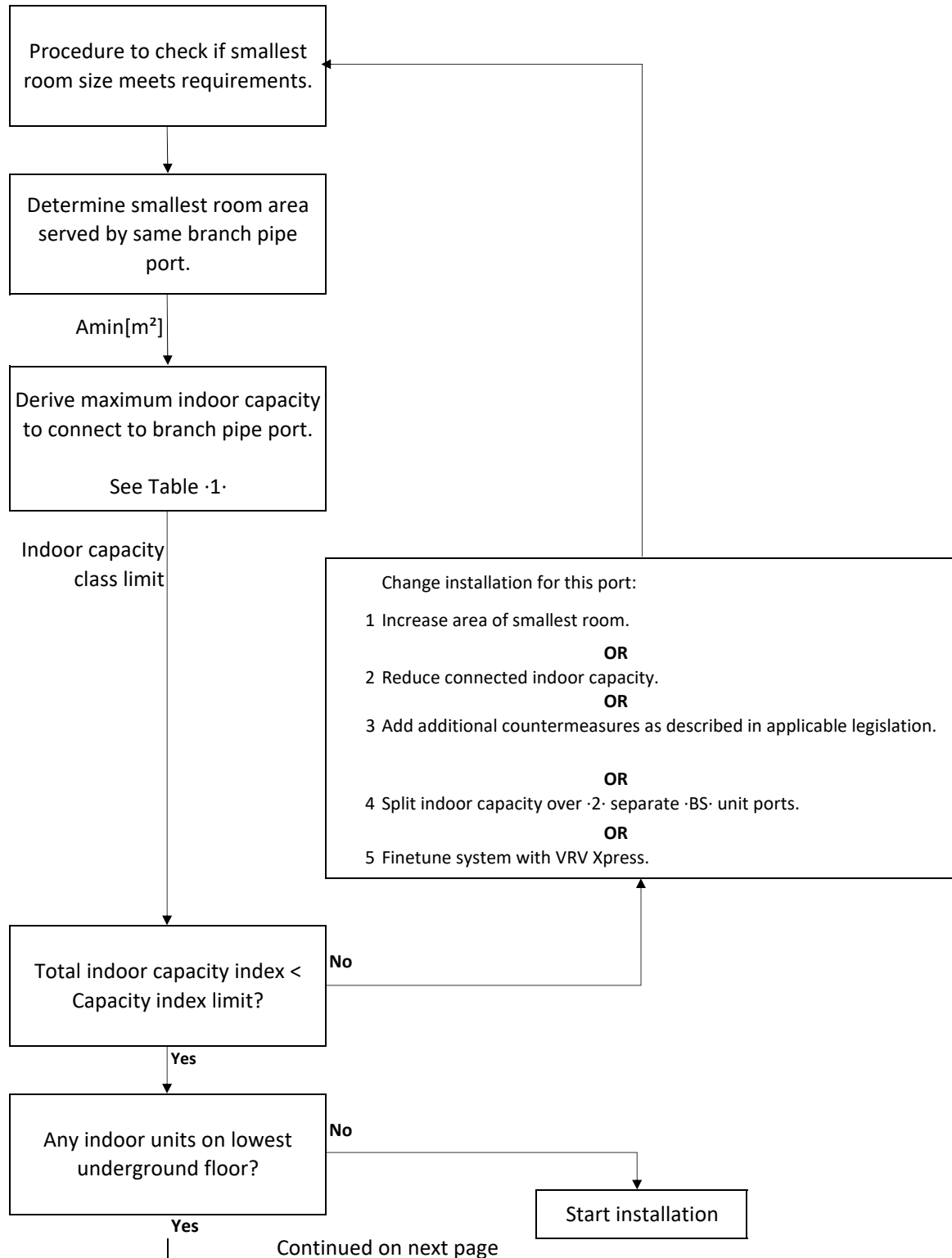
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Indoor unit installation

Flowchart (for EACH ·BS· unit branch pipe port)



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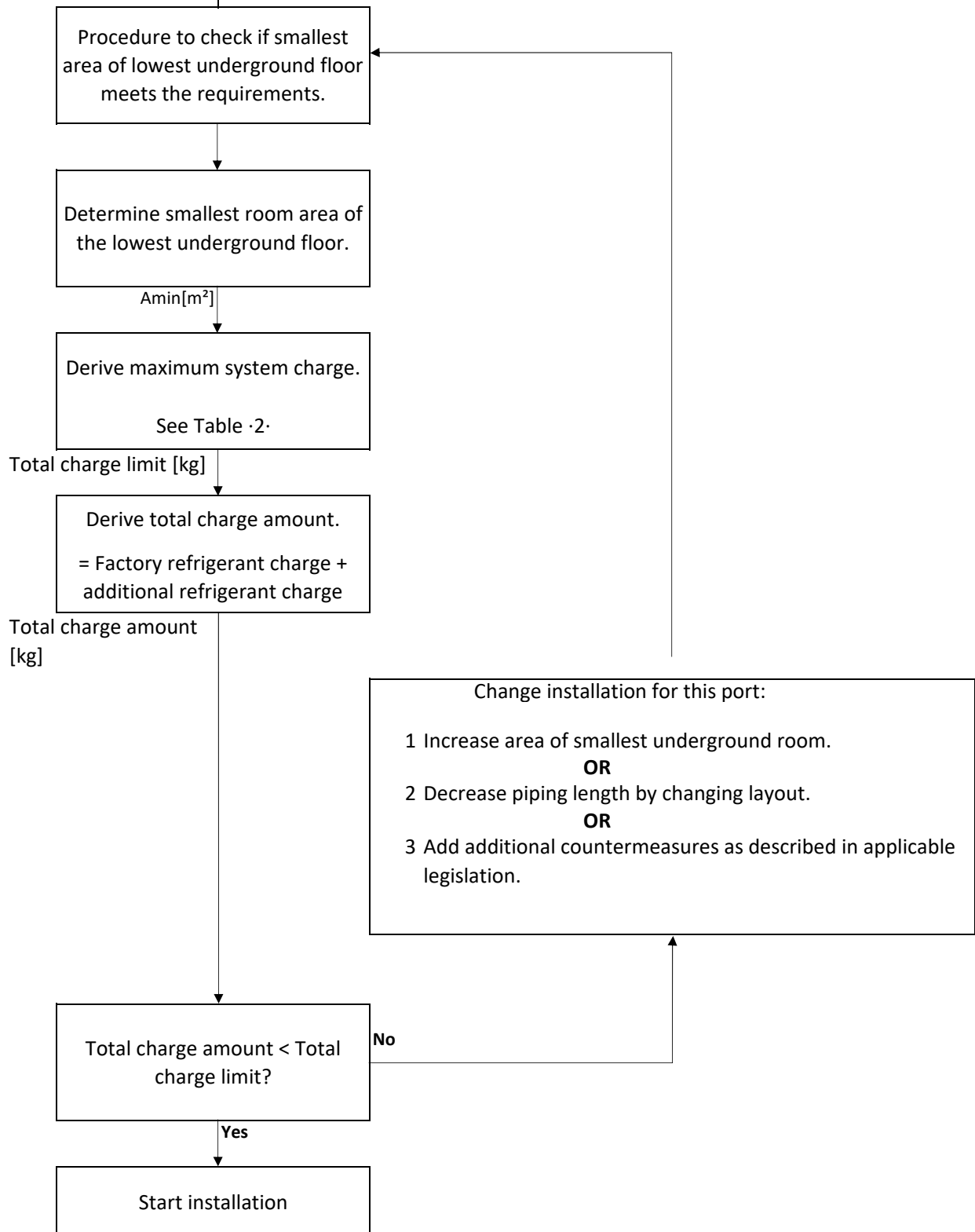
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Indoor unit installation

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Indoor unit installation

Table ·1·

Room area [m ²]	Maximum total indoor unit capacity class		
	1 indoor unit per branch pipe port (·a·, d·)	·2-5· units per branch pipe port	
		·40· m after first branch (·b·)	·90· m after first branch (·c·)
≤6	-	-	-
7	10	-	-
8	15	-	-
9	32	-	-
10	32	-	-
11	40	-	-
12	40	-	-
13	71	-	-
14	80	-	-
15	80	-	-
20	80	32	-
25	140	40	25
30	200	63	50
35	200	71	71
40	250	100	100
≥45	250	140	140

(a) 1 indoor unit connected to a single branch pipe port.

(b) ·2· to ·5· indoor units connected to a single branch pipe port, ·40· m after first refrigerant branch.

(c) ·2· to ·5· indoor units connected to a single branch pipe port, ·90· m after first refrigerant branch.

(d) In case the indoor unit capacity class exceeds ·140·, two branch ports need to be combined. Refer to the installation manual for more details.

Note: The values in Table ·1· are under the assumption of worst case indoor unit volume and ·40· m piping between indoor and ·BS· unit.

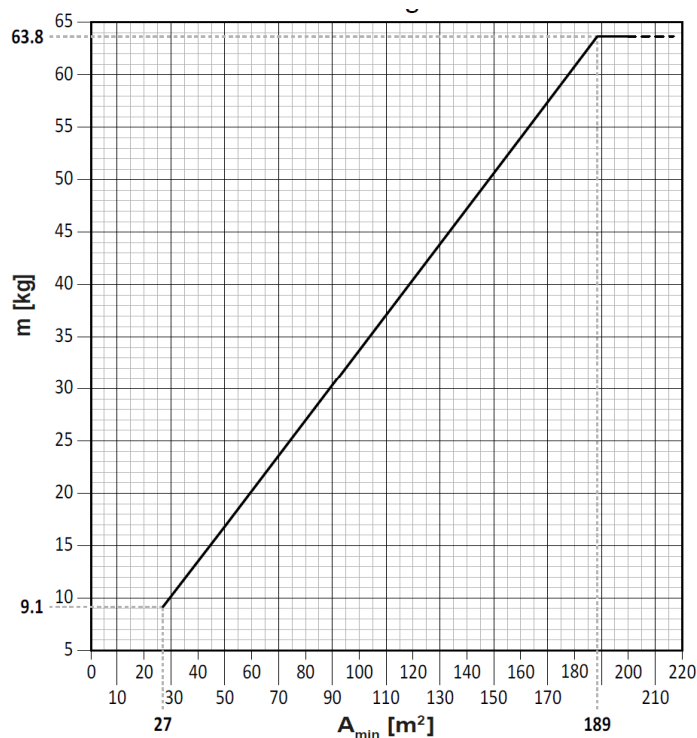
In VRV Xpress (<https://vrvxpress.daikin.eu/>) it is possible to add custom piping lengths and indoor units, which can lead to lower minimum room area requirements.

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Table ·2·

Lowest underground floor (·a·)



A _{min} (m ²)	m (kg)
27	9.1
30	10.1
40	13.5
50	16.8
60	20.2
70	23.6
80	27.0
90	30.3
100	33.7
110	37.1
120	40.5
130	43.9
140	47.2
150	50.6
160	54.0
170	57.4
180	60.7
189	63.8
190	63.8
200	63.8

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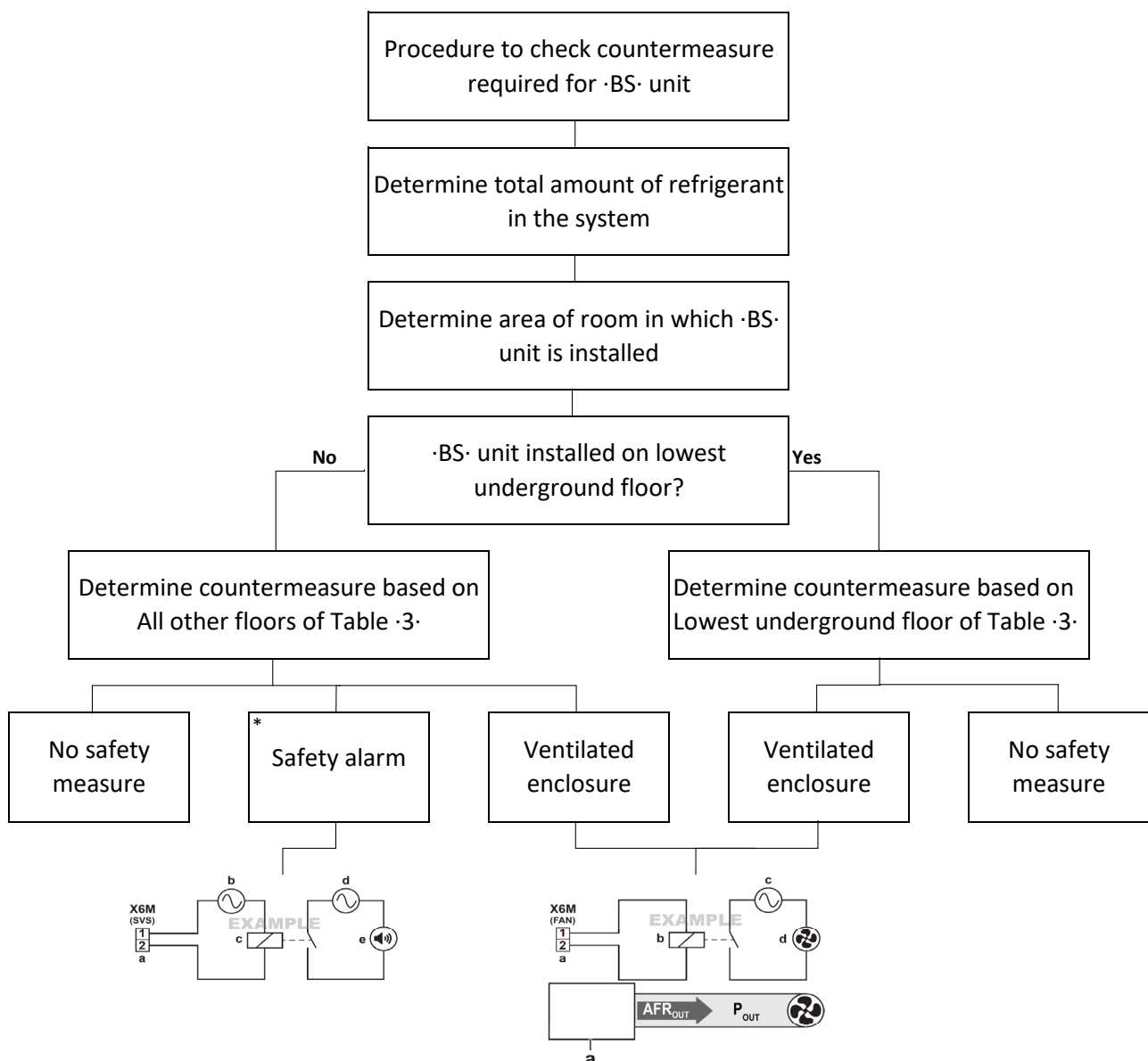
•BS• unit installation

Depending on the room size in which the •BS• unit is installed and the total amount of refrigerant in the system, different safety measures can be applied.

Follow the flowchart. Details are described in the manual of •BS• unit.

Note: If the installation height is more than •2.2• m, different boundaries for the applicable safety measures can apply.

To know which safety measure is required in case the installation height is more than •2.2• m, refer to VRV Xpress (<https://vrvxpress.daikin.eu/>).



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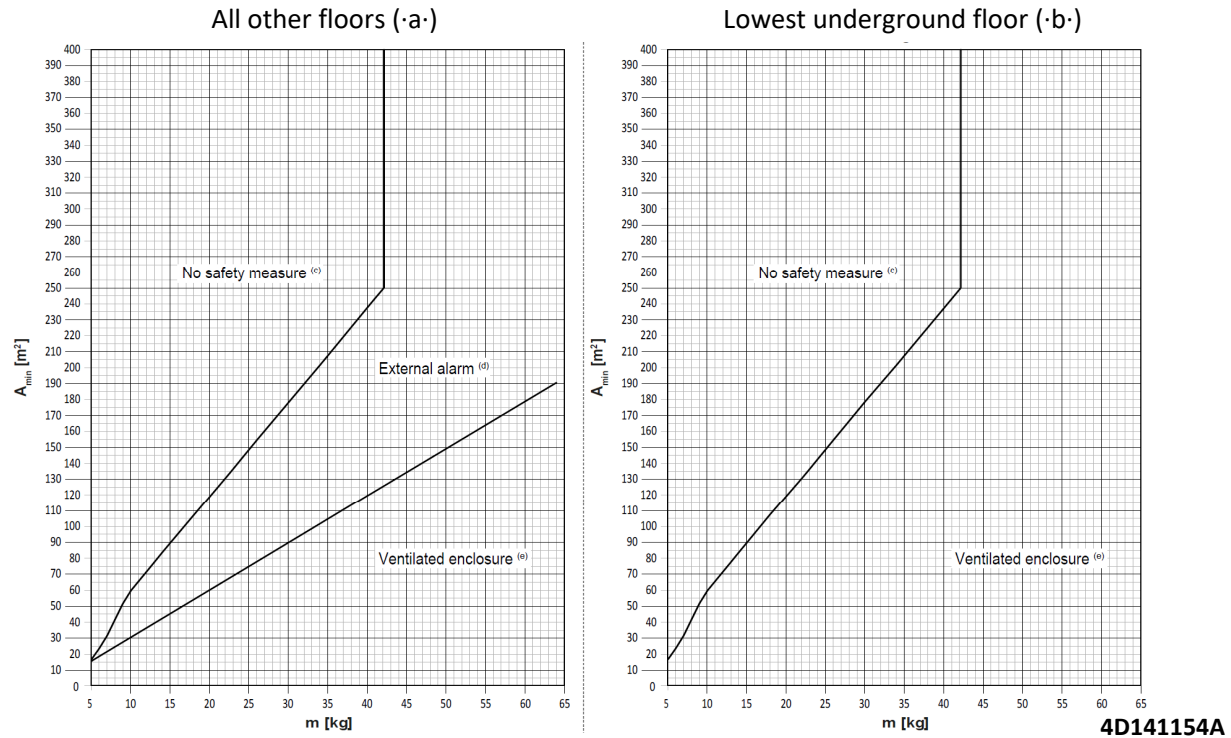
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•BS• unit installation

Table •3•



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•BS• unit installation

m [kg]	Amin [m²]			m [kg]	Amin [m²]		
	All other floors (-a-)		Lowest underground floor (-b-)		All other floors (-a-)		Lowest underground floor (-b-)
	No safety measure (-c-)	External alarm (-d-)	No safety measure (-c-)		No safety measure (-c-)	External alarm (-d-)	No safety measure (-c-)
5	16	15	16	35	207	104	207
6	23	18	23	36	213	107	213
7	31	21	31	37	219	110	219
8	41	24	41	38	225	113	225
9	51	27	51	39	231	115	231
10	59	30	59	40	237	118	237
11	65	33	65	41	243	121	243
12	71	36	71	42	249	124	249
13	77	38	77	43	-	127	-
14	83	41	83	44	-	130	-
15	89	44	89	45	-	133	-
16	95	47	95	46	-	136	-
17	101	50	101	47	-	139	-
18	107	53	107	48	-	142	-
19	113	56	113	49	-	145	-
20	118	59	118	50	-	148	-
21	124	62	124	51	-	151	-
22	130	65	130	52	-	154	-
23	136	68	136	53	-	157	-
24	142	71	142	54	-	160	-
25	148	74	148	55	-	163	-
26	154	77	154	56	-	166	-
27	160	80	160	57	-	169	-
28	166	83	166	58	-	172	-
29	172	86	172	59	-	175	-
30	178	89	178	60	-	178	-
31	184	92	184	61	-	181	-
32	190	95	190	62	-	184	-
33	195	98	195	63	-	187	-
34	201	101	201	64	-	190	-

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·BS· unit installation

When the R32 sensor in the ·BS· unit detects a refrigerant leak, it will activate the safety measures.

Safety alarm

An external alarm circuit (field supply) must be connected to the SVS output of the ·BS· unit.

When the R32 sensor in the ·BS· unit detects a refrigerant leak, the SVS output closes and activates the alarm. An error message is displayed on the remote controllers of the connected indoor units.

- This alarm system must warn audibly AND visibly (e.g. a loud buzzer AND a flashing light). The audible alarm must be ·15· dBA above the background sound level at all times.
- At least one alarm must be installed in the occupied space in which the ·BS· unit is installed.
- For the occupancy listed below, the alarm system must additionally warn at a supervised location with 24-hour monitoring. To warn at a supervised location, connect a supervisor remote controller (e.g. ·BRC1H52*·) to the system
 - with sleeping facilities.
 - where an uncontrolled number of people are present.
 - accessible for persons not familiar with the necessary safety precautions.
- Do NOT use the external safety alarm if the ·BS· unit is installed in an occupied space where people are restricted in their movement.

For details, see the manual of the ·BS· unit.

Ventilated enclosure

For the ventilated enclosure safety measure, ductwork and an extraction fan are installed.

When the R32 sensor in the ·BS· unit detects a refrigerant leak, it will activate the safety measures.

This includes:

- opening the damper of the unit to allow air to enter and evacuate the refrigerant leak.
- activating the fan output signal to trigger an extraction fan to operate.
- displaying an error message on the remote controllers of the connected indoor units.

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·BS· unit installation

The information in the table below must be taken into account in case a ventilated enclosure is used as a safety measure.

Ductwork	The evacuation ductwork MUST vent outside the building. Avoid that dirt and small animals can enter the ductwork and lead to an obstruction. Example: install a non-return valve, grille, filter or other component in the evacuation duct.
Extraction fan	The extraction fan must have a CE marking and cannot act as an ignition source during normal operation. Example: Brushed DC motors can cause sparks and are not allowed. Fan power must be lower than ·2.5· kVA.
Replacement air	Make sure that sufficient air is available for the extraction of a refrigerant leak. The extraction airflow rate must be maintained for at least ·6.5· hours. This is achieved by providing a sufficiently large air volume around the ·BS· unit, or by providing sufficient replacement air around the ·BS· unit (e.g. natural openings or a dedicated opening in the false ceiling).
Maintenance	A periodic inspection of the unit is required, where the test run is repeated. Maintain the evacuation channel to avoid dust and dirt from building up and obstructing the flow path.

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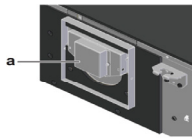
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REMA5A

•BS• unit installation

A damper at the air inlet of the •BS• unit enables a choice between 3 types of configurations (see below).

The damper opens when a refrigerant leak has been detected in the •BS• unit. This creates an airflow path from the leaking •BS• unit to the extraction fan.



a Damper

When a ventilated enclosure is required, the following requirements apply.

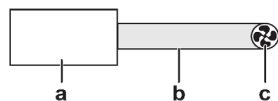
- Pressure inside the •BS• unit has to be more than 20 Pa below the ambient pressure.
- Minimum airflow rate

Model	Minimum airflow rate [m³/h]
BS4A	90
BS6-8A	87
BS10-12A	77

External fan needs to be selected in order to meet these requirements. The available calculation method depends on the configuration.

Possible configurations

One •BS• unit – one extraction fan



- a BS unit
- b Ductwork
- c Extraction fan

Calculation method for selection of external fan

- Manual calculation: see •BS• unit manual for details
- VRV Xpress: see <https://vrvxpress.daikin.eu/>

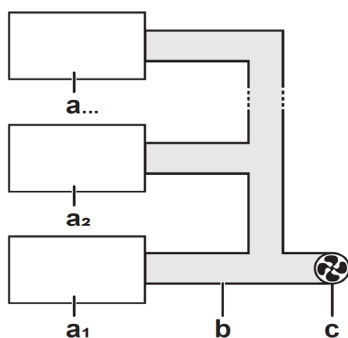
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•BS• unit installation

Multiple •BS• units in parallel – one extraction fan

- VRV Xpress: see <https://vrvxpress.daikin.eu/>



- a_# BS unit #
- b Ductwork
- c Extraction fan

Multiple •BS• units in series – one extraction fan

- VRV Xpress: see <https://vrvxpress.daikin.eu/>



- a BS unit
- b Ductwork
- c EKBSDCK
- d Extraction fan

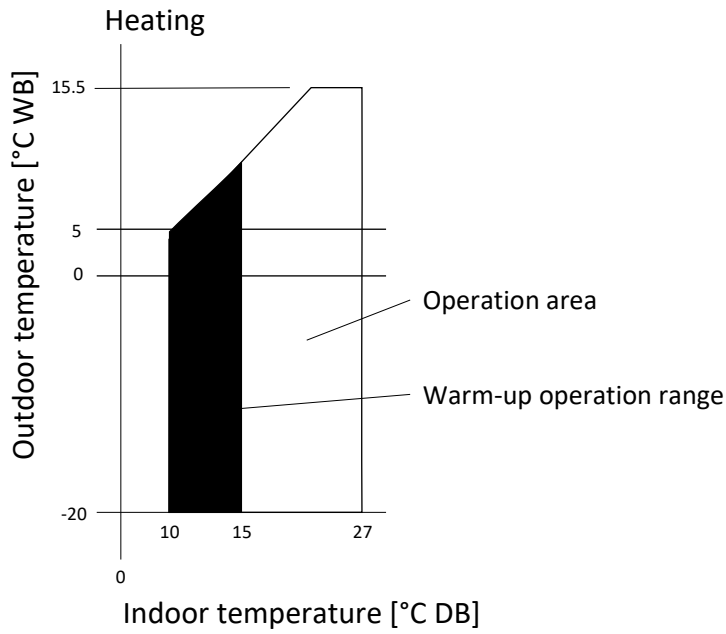
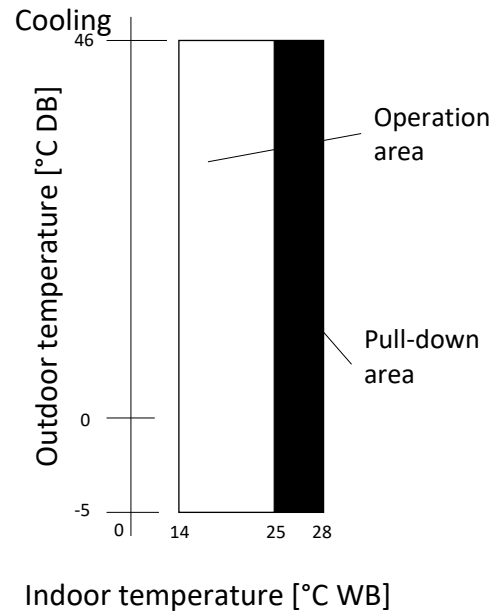
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13 Operation range

13 - 1 Operation Range

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13



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14 Appropriate Indoors

14 - 1 Appropriate Indoors

REYA-A
REMA5A

Recommended indoor units for -REYA*A* + REMA5A* - outdoor units

.. HP	8	10	12	13	14	16	18	20
	4xFXSA50	4xFXSA63	6xFXSA50	3xFXSA50 3xFXSA63	1xFXSA50 5xFXSA63	4xFXSA63 2xFXSA80	3xFXSA50 5xFXSA63	8xFXSA63

For multi outdoor units ->16HP-, the recommended amount of indoor units is the sum of the indoor units defined for a single outdoor unit.
For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for -REYA*A* + REMA5A* - outdoor units

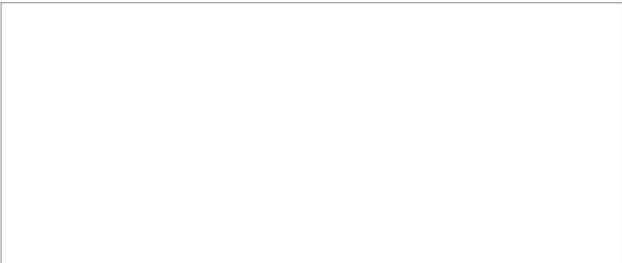
Covered by -ENER LOT21-

FXFA20-25-32-40-50-63-80-100-125
FXZA15-20-25-32-40-50
FXSA15-20-25-32-40-50-63-80-100-125-140
FXDA10-15-20-25-32-40-50-63
FXAA15-20-25-32-40-50-63
FXMA50-63-80-100-125-200-250
FXHA32-50-63-100
FXUA50-71-100
FXKA20-25-32-40-50-63
FXNA20-25-32-40-50-63

Outside the scope of -ENER LOT21-

EKVDX32-50-80-100
EKEXVA50-63-80-100-125-140-200-250-300-350-400-450-500 + EKEACBVE
CYAS100*80, CYAS150*80, CYAS200*100, CYAS250*140
CYAM100*80, CYAM150*80, CYAM200*100, CYAM250*140
CYAL100*125, CYAL150*200, CYAL200*250, CYAL250*250

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