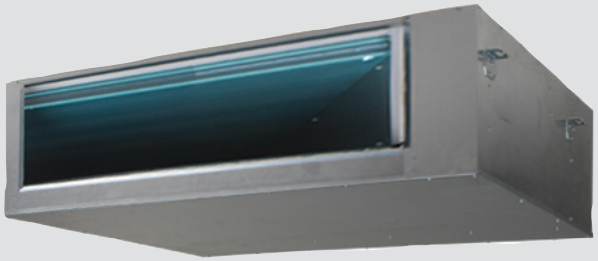
Air Conditioning
Technical Data

SB.RKXYQ-T8, SB.RKXYQ-T



> SB.RKXYQ5T8
> SB.RKXYQ8T

TABLE OF CONTENTS

SB.RKXYQ-T8, SB.RKXYQ-T

1 Features

1 - 1 SB.RKXYQ-T8

- Unique VRV heat pump for indoor installation
- Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor
- Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- Lightweight units (max. 105kg) can be installed by two people
- Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- Connectable to all VRV control systems
- Keep your system in top condition via our i-Net service: 24/7 monitoring for maximum efficiency, extended lifetime, immediate service support thanks to failure prediction and a clear understanding of operability and usage

Inverter

1 Features
1 - 2 SB.RKXYQ-T

- Unique VRV heat pump for indoor installation
- Unrivalled flexibility because the unit is split up into two elements: the heat exchanger and the compressor
- Highly suited to densely populated areas thanks to the low operation sound and seamless integration into surrounding architecture as only the grille is visible
- Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature, VRV configurator and full inverter compressors
- Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air cutains
- Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- VRV configurator software for the fastest and most accurate commissioning, configuration and customisation
- Lightweight units (max. 105kg) can be installed by two people
- Unique V-shape heat exchanger results in compact dimensions (h/e unit only 400mm high) allowing false ceiling installation, while ensuring top efficiency
- Super efficient centrifugal fans (over 50% efficiency increase compared to sirocco fan)
- Small footprint compressor unit (760 x 554 mm) maximizing useable floor space
- Connectable to all VRV control systems
- Keep your system in top condition via our i-Net service: 24/7 monitoring for maximum efficiency, extended lifetime, immediate service support thanks to failure prediction and a clear understanding of operability and usage

INVERTER

Inverter

2 Specifications

2-1 Technical Specifications					SB.RKXYQ5T8	SB.RKXYQ8T
System	Heat exchanger unit				RDXYQ5T8	RDXYQ8T
	Compressor unit				RKXYQ5T8	RKXYQ8T
Recommended combinations					4 x FXSQ32A2VEB	4 x FXMQ50P7VEB
Cooling capacity	Prated,c			kW	14.0 (1)	22.4 (1)
Heating capacity	Prated,h			kW	10.4 (2)	12.9 (2)
	Max.	6°CWB		kW	16.0 (3)	25.0 (3)
SEER					5.1	4.9
SCOP					3.8	3.6
ηs,c				%	200.1	191.1
ηs,h				%	149.3	140.9
Space cooling	A Condition (35°C - 27/19)	EERd			2.4	2.2
		Pdc		kW	14.0	22.4
	B Condition (30°C - 27/19)	EERd			4.0	3.7
		Pdc		kW	10.3	16.5
	C Condition (25°C - 27/19)	EERd			6.5	5.5
		Pdc		kW	6.6	10.6
	D Condition (20°C - 27/19)	EERd			9.4	10.5
		Pdc		kW	4.8	6.4
Space heating (Average climate)	TBivalent	COPd (declared COP)			2.2	2.0
		Pdh (declared heating cap)		kW	10.4	12.9
		Tbiv (bivalent temperature)		°C	-10.0	
	TOL	COPd (declared COP)			2.2	2.0
		Pdh (declared heating cap)		kW	10.4	12.9
		Tol (temperature operating limit)		°C	-10.0	
	A Condition (-7°C)	COPd (declared COP)			2.4	2.3
		Pdh (declared heating cap)		kW	9.2	11.4
	B Condition (2°C)	COPd (declared COP)			3.3	3.0
		Pdh (declared heating cap)		kW	5.6	6.9
	C Condition (7°C)	COPd (declared COP)			7.1	6.6
		Pdh (declared heating cap)		kW	3.6	5.4
	D Condition (12°C)	COPd (declared COP)			5.2	7.3
		Pdh (declared heating cap)		kW	4.1	6.0
Capacity range				HP	5	8
Maximum number of connectable indoor units					10 (4)	17 (4)
Indoor index connection	Min.				62.5	100.0
	Max.				162.5	260.0
Capacity control	Method				Inverter controlled	
Fan	External static pressure	Max.		Pa	150	
		Nom.		Pa	60	
Operation range	Cooling	Min.~Max.		°CDB	-5.0~46.0	
	Heating	Min.~Max.		°CWB	-20.0~15.5	
	Temperature around casing	Min.		°CDB	5	
		Max.		°CDB	35	
	Humidity around casing	Cooling	Max.	%	80	
		Heating	Max.	%	50	
Refrigerant	Type				R-410A	
Refrigerant oil	Type				Synthetic (ether) oil FVC50K	Synthetic (ether) oil FVC68D

2 Specifications

2-1 Technical Specifications					SB.RKXYQ5T8	SB.RKXYQ8T
Piping connections	Between Compressor module (CM) and heat exchanger module (HM)	Liquid	Type		Braze connection	
			OD	mm	12.7	
		Gas	Type		Braze connection	
			OD	mm	19.1	22.2
		Piping length	Max.	m	30.0	
	Between Compressor module (CM) and indoor units (IU)	Liquid	Type		Braze connection	
			OD	mm	9.52	
		Gas	Type		Braze connection	
			OD	mm	15.9	19.1
	Total piping length	System	Actual	m	140 (5)	300 (5)
Defrost method					Reversed cycle	
Safety devices	Item	01			High pressure switch	
		02			Fan driver overload protector	
		03			Inverter overload protector	
		04			PC board fuse	
		05			-	Earth leakage detector
Cooling	Cdc (Degradation cooling)				0.25	
Heating	Cdh (Degradation heating)				0.25	
Power consumption in other than active mode	Off mode	Cooling	POFF	kW	0.045	0.043
		Heating	POFF	kW	0.055	0.050
	Standby mode	Cooling	PSB	kW	0.045	0.043
		Heating	PSB	kW	0.055	0.050
	Thermostat-off mode	Cooling	PTO	kW	0.000	0.012
		Heating	PTO	kW	0.055	0.060
Indication if the heater is equipped with a supplementary heater					no	
Supplementary heater	Back-up capacity	Heating	elbu	kW	0.0	

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

Standard Accessories : Connection pipes; Quantity : 4;

Standard Accessories : Declaration of conformity; Quantity : 1;

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

Standard Accessories : Tie-wraps; Quantity : 3;

Standard Accessories : Screws; Quantity : 1;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Hose band; Quantity : 1;

2-2 Electrical Specifications			SB.RKXYQ5T8	SB.RKXYQ8T
Current - 50Hz	Zmax	List	No requirements	
Wiring connections - 50Hz	For connection with indoor	Quantity	2	-
		Remark	F1,F2	-

2 Specifications

Notes

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

(2) For detailed contents of standard accessories, see installation/operation manual

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

(4) Actual number of units depends on the indoor unit type (VRV DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤ 130%).

(5) Refer to refrigerant pipe selection or installation manual

Sound power level is an absolute value that a sound source generates.

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

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

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

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 wih Ssc ≥ minimum Ssc value

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

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

TOCA means the total value of each OC set.

FLA means the nominal running current of the fan

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

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Nominal air flow rate, ESP 30 Pa.

Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series. Nominal air flow rate, ESP 30 Pa.

The sound power level is an absolute value indicating the power which a sound source generates.

Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings. Nominal air flow rate, ESP 60 Pa.

Contains fluorinated greenhouse gases

2-3 Technical Specifications				RDXYQ8T	RKXYQ8T	RDXYQ5T8	RKXYQ5T8
Dimensions	Unit	Height	mm	397	701	397	701
		Width	mm	1,456	760	1,456	600
		Depth	mm	1,044	554	1,044	554
	Packed unit	Height	mm	1,245	825	1,245	838
		Width	mm	1,604	875	1,604	720
		Depth	mm	470	660	470	660
	Ducting	Height	mm	298	-	298	-
		Width	mm	1,196	-	1,196	-
Weight	Unit		kg	103	105	95	79
	Packed unit		kg	123	116	119	90
Packing	Material			Carton			
	Weight		kg	4.9	2.2	4.9	2.1
Packing 2	Material			Wood			
	Weight		kg	14.0	8.5	14.0	6.9
Packing 3	Material			-	Plastic	-	Plastic
	Weight		kg	-	0.3	-	0.3
Casing	Colour			Unpainted	Daikin White	Unpainted	Daikin White
	Material			Galvanised steel	Painted galvanized steel plate	Galvanised steel plate	Painted galvanized steel plate

2 Specifications

2-3 Technical Specifications					RDXYQ8T	RKXYQ8T	RDXYQ5T8	RKXYQ5T8
Compressor	Quantity				-	1	-	1
	Type				-	G-type scroll compressor	-	Hermetically sealed swing compressor
	Crankcase heater			W	-	33	-	33
Fan	Quantity				3	-	2	-
	Air flow rate	Cooling	Nom.	m³/min	100	-		
Fan motor	Quantity				3	-	2	-
	Output			W	500	-	500	-
Sound power level	Cooling	Nom.		dBA	81	64	77.0	60.0
Sound pressure level	Cooling	Nom.		dBA	54	48	47.0	
Refrigerant	Type				R-410A			
	GWP				-	2,087.5	-	2,087.5
	Charge			TCO_2eq	-	8.35	-	4.20
				kg	-	4.00	-	2.00
Refrigerant oil	Type				Daphne FVC68D		Synthetic (ether) oil FVC50K	
Piping connections	Drain	OD		mm	32	-	32	-

2-4 Electrical Specifications				RDXYQ8T	RKXYQ8T	RDXYQ5T8	RKXYQ5T8
Power supply	Name			V1	Y1	V1	Y1
	Phase			1N~	3N~	1N~	3N~
	Frequency		Hz	50			
	Voltage		V	220-240	380-415	220-240	380-415
Voltage range	Min.		%	-10			
	Max.		%	10			
Current	Nominal running current (RLA) - 50Hz	Cooling	A	4.6	8.6	1.8	5.8
Current - 50Hz	Starting current (MSC) - remark			-			
	Minimum circuit amps (MCA)		A	7.0	17.4	4.6	13.5
	Maximum fuse amps (MFA)		A	10	20	10	16
	Total overcurrent amps (TOCA)		A	7.0	17.4	4.6	13.5
	Full load amps (FLA)	Total	A	6.6	-	4.4	-
Wiring connections - 50Hz	For power supply	Quantity		3G	5G	3G	5G
	For connection with indoor	Quantity		-	2	-	
		Remark		-	F1,F2	-	

3 Options

3 - 1 Options

SB.RKXYQ5T8

VRV4-i
Heat pump
Option list

Nr.	Item	SB.RKXYQ5T		SB.RKXYQ8T	
		Heat exchanger unit	Compressor unit	Heat exchanger unit	Compressor unit
I.	Refnet header	KHRQ22M29H		KHRQ22M29H	
II.	Refnet joint	KHRQ22M20T		KHRQ22M20T	
III.	Refnet joint	-		KHRQ22M29T9	
1a.	Cool/heat selector (switch)	-	KRC19-26	-	KRC19-26
1b.	Cool/heat selector (fixing box)	-	KJB111A	-	KJB111A
1c.	Cool/heat selector (cable)	-	EKCHSC	-	-
1d.	Cool/heat selector (PCB)	-	-	-	BRP2A81
2.	VRV configurator	-	EKPCCAB*	-	EKPCCAB*
3.	Demand PCB	DTA104A61/62*		DTA104A61/62*	
4.	Drain pan heater	EKDPH1RDX	-	EKDPH1RDX	-

Notes
1. All options are kits
2. To mount option 1a, option 1b is required.
3. VRV4-i 5To operate the cool/heat selector function, options 1a and 1c are both required.
   VRV4-i 8To operate the cool/heat selector function, options 1a and 1d are both required.
4. If the outdoor temperature can drop below –7°C for more than 24 hours, it is recommended to install drain pan heater kit EKDPH1RDX.

3D098831A

SB.RKXYQ-T

VRV4-i
Heat pump
Option list

Nr.	Item	SB.RKXYQ5T		SB.RKXYQ8T	
		Heat exchanger unit	Compressor unit	Heat exchanger unit	Compressor unit
I.	Refnet header	KHRQ22M29H		KHRQ22M29H	
II.	Refnet joint	KHRQ22M20T		KHRQ22M20T	
III.	Refnet joint	-		KHRQ22M29T9	
1a.	Cool/heat selector (switch)	-	KRC19-26	-	KRC19-26
1b.	Cool/heat selector (fixing box)	-	KJB111A	-	KJB111A
1c.	Cool/heat selector (cable)	-	EKCHSC	-	-
1d.	Cool/heat selector (PCB)	-	-	-	BRP2A81
2.	VRV configurator	-	EKPCCAB*	-	EKPCCAB*
3.	Demand PCB	DTA104A61/62*		DTA104A61/62*	
4.	Drain pan heater	EKDPH1RDX	-	EKDPH1RDX	-

Notes
1. All options are kits
2. To mount option 1a, option 1b is required.
3. VRV4-i 5HP: To operate the cool/heat selector function, options 1a and 1c are both required.
   VRV4-i 8HP: To operate the cool/heat selector function, options 1a and 1d are both required.
4. If the outdoor temperature can drop below –7°C for more than 24 hours, it is recommended to install drain pan heater kit EKDPH1RDX.

3D098831A

4 Combination table

4 - 1 Combination Table

SB.RKXYQ-T

VRV4-i
Heat pump
Indoor unit combination restrictions

System pattern		Capacity [%]	DX [%]	AHU [%]	FXMQ*MF [%]
VRV DX indoor unit		50 - 130	50 - 130	-	-
RA indoor unit		-	-	-	-
Hydrobox unit		-	-	-	-
DX + AHU	See note 1.	50 - 110	50 - 110	0 - 60	-
Air handling unit only	See note 1.	90 - 110	-	90 - 110	-
FXMQ*MF		50 - 100	-	-	50 - 100

AHU: Air handling unit (AHU)

Notes
1. AHU = CYV (biddle) air curtain OR EKEXV + EKEQM

3D098838A

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.
  Click here to access the capacity table viewer.

- For more information about all our tools we offer click here to see the overview on my.daikin.eu

5 Capacity tables

5 - 2 Integrated Heating Capacity Correction Factor

SB.RKXYQ-T

VRV4-i
Heat pump
Integrated heating capacity coefficient

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:

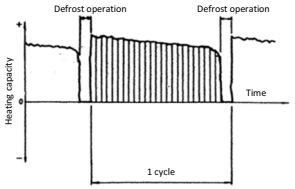
Formula

A = Integrated heating capacity
B = Capacity characteristics value
C = Integrated correction factor for frost accumulation (see table)

A = B * C

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
5 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00
8 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00



Notes
1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

3D098840A

5 Capacity tables

5 - 3 Capacity Correction Factor

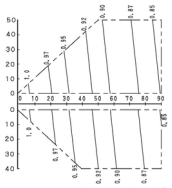
SB.RKXYQ5T8

Page ·3·

VRV4-i

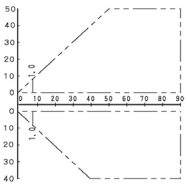
Heat pump

Correction ratio for cooling capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

Correction ratio for heating capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

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 it the above figures.
2. With this ·VRV4-i· system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
3. 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 delivered by the compressor unit plus the heat exchanger unit, whichever is less.
   Indoor connection ratio ≤ 100%.
   Maximum capacity of outdoor units = Capacity 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 from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit
4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥·90·m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
   If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).
   If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥·90·m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

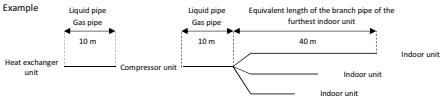
Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
·8· HP	9,5	12,7	19,1	22,2

5. Overall equivalent length
   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.
   When calculating the cooling capacity: gas pipe size
   When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	0,3

Example



Overall equivalent length
- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,89
- Heating mode = 1,00

3D098839A

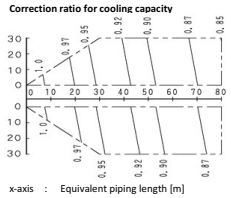
SB.RKXYQ5T8

Page ·2·

VRV4-i

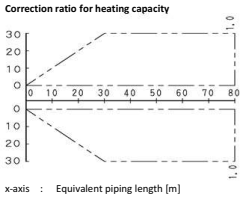
Heat pump

Correction ratio for cooling capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

Correction ratio for heating capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

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 it the above figures.
2. With this ·VRV4-i· system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
3. 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 delivered by the compressor unit plus the heat exchanger unit, whichever is less.
   Indoor connection ratio ≤ 100%.
   Maximum capacity of outdoor units = Capacity 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 from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit
4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥·90·m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
   If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

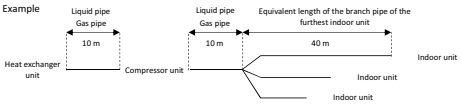
Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
·5· HP	9,5	Not increased	15,9	19,1

5. Overall equivalent length
   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.
   When calculating the cooling capacity: gas pipe size
   When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	

Example



Overall equivalent length
- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,89
- Heating mode = 1,00

3D098839A

5 Capacity tables
5 - 3 Capacity Correction Factor

SB.RKXYQ5T8

VRV4-i
Heat pump
Integrated heating capacity coefficient

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:

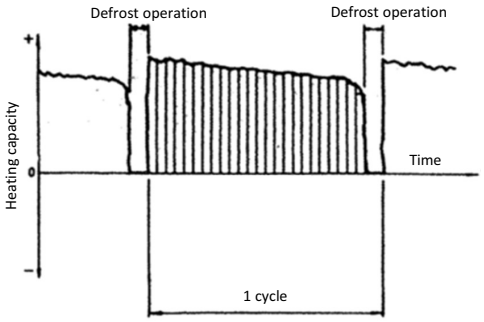
Formula

A = Integrated heating capacity
B = Capacity characteristics value
C = Integrated correction factor for frost accumulation (see table)

A = B * C

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
5 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00
8 HP	0,88	0,86	0,80	0,75	0,76	0,82	1,00

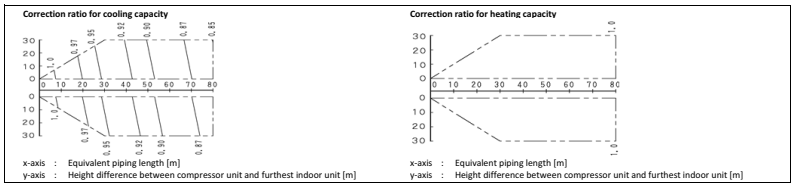


Notes
1. The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).

3D098840A

SB.RKXYQ5T

VRV4-i
Heat pump

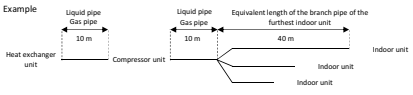


Notes
1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown it the above figures.
2. With this -VRV4-i- system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
3. 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 delivered by the compressor unit plus the heat exchanger unit, whichever is less.
Indoor connection ratio ≤ 100%.
Maximum capacity of outdoor units = Capacity 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 from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit
4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥ 90 m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
5 HP	9,5	Not increased	15,9	19,1

5. Overall equivalent length
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.
When calculating the cooling capacity: gas pipe size
When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	



Overall equivalent length
- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

Capacity correction ratio (height difference = 0)
- Cooling mode = 0,89
- Heating mode = 1,00

3D098839A

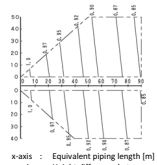
5 Capacity tables

5 - 3 Capacity Correction Factor

SB.RKXYQ8T

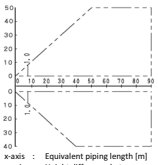
VRV4-i
Heat pump

Correction ratio for cooling capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

Correction ratio for heating capacity



x-axis : Equivalent piping length [m]
y-axis : Height difference between compressor unit and furthest indoor unit [m]

Notes

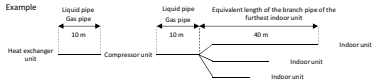
1. These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown it the above figures.
2. With this -VRV4-i- system, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
3. 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 delivered by the compressor unit plus the heat exchanger unit, whichever is less.
   Indoor connection ratio ≤ 100%.
   Maximum capacity of outdoor units = Capacity 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 from capacity table at installed connection ratio x Correction ratio of piping to furthest indoor unit
4. If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90-m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
   If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).
   If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥-90-m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

Model	Standard liquid side Ø	Increased liquid side Ø	Standard gas side Ø	Increased gas side Ø
-8- HP	9,5	12,7	19,1	22,2

5. Overall equivalent length
   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.
   When calculating the cooling capacity: gas pipe size
   When calculating the heating capacity: liquid pipe size

	Standard size	Size increase
Cooling (gas pipe)	1,0	0,5
Heating (liquid pipe)	1,0	0,3

Example



Overall equivalent length
- Cooling mode = 10 m + 10 m x 1 + 40 m = 60 m
- Heating mode = 10 m + 10 m x 1 + 40 m = 60 m

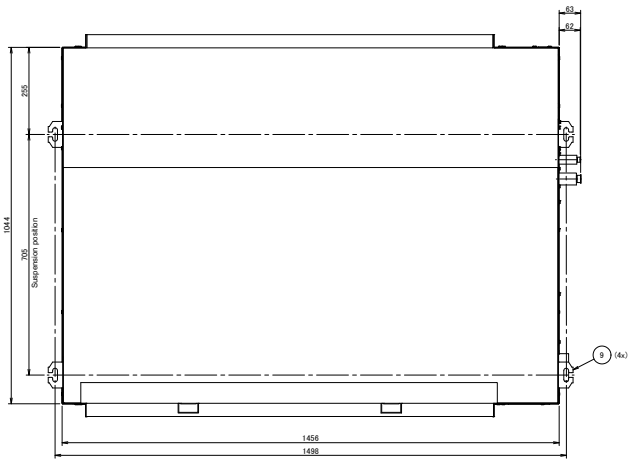
Capacity correction ratio (height difference = 0)
- Cooling mode = 0,89
- Heating mode = 1,00

3D098839A

6 Dimensional drawings

6 - 1 Dimensional Drawings

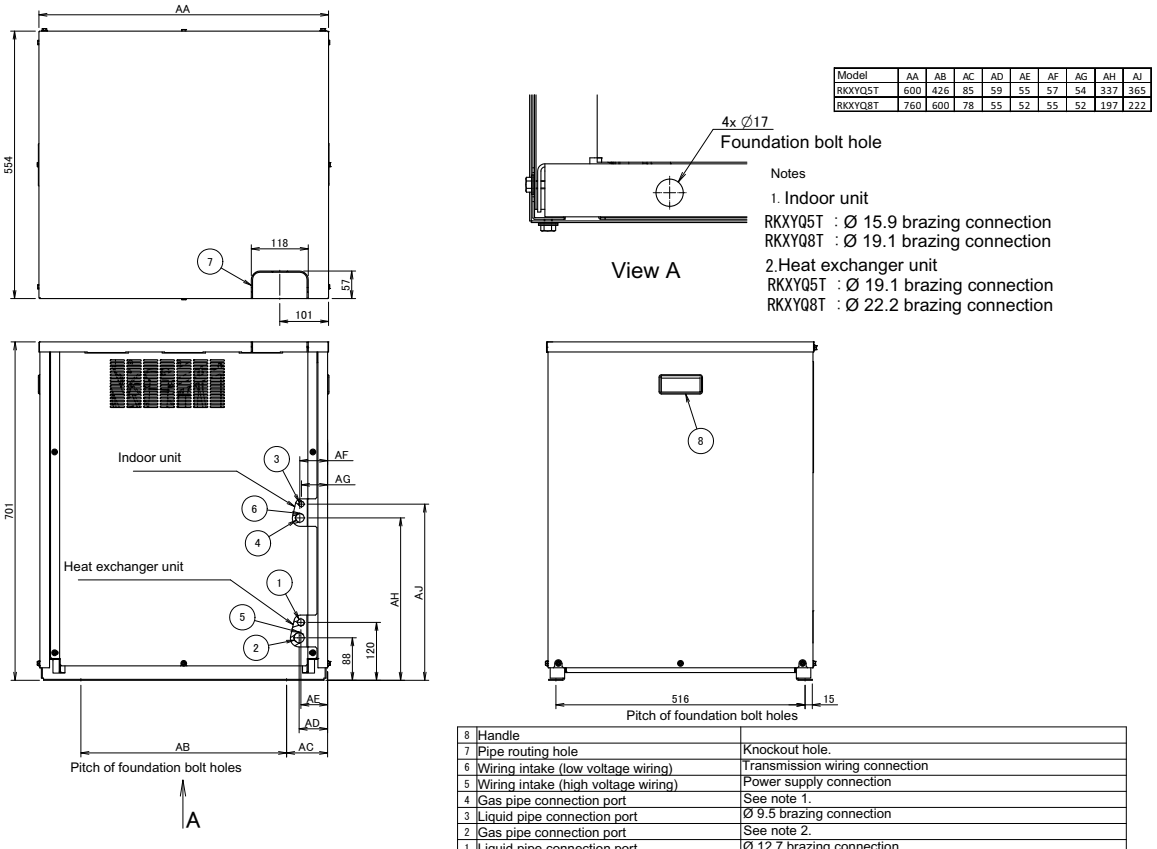
RDXYQ-T8



No.	Part name	Remark
9	Hook	
8	Service door	
7	Air discharge side	
6	Air suction side	
5	Wiring intake (low voltage wiring)	Transmission wiring connection
4	Wiring intake (high voltage wiring)	Power supply connection
3	Drain outlet	VP25
2	Gas pipe connection port	Ø 19.1 brazing connection
1	Liquid pipe connection port	Ø 12.7 brazing connection

2D112002

SB.RKXYQ-T8



Model	AA	AB	AC	AD	AE	AF	AG	AH	AJ
RKXYQ5T	600	426	85	59	55	57	54	337	365
RKXYQ8T	760	600	78	55	52	55	52	197	222

Notes

1. Indoor unit
   RKXYQ5T : Ø 15.9 brazing connection
   RKXYQ8T : Ø 19.1 brazing connection
2. Heat exchanger unit
   RKXYQ5T : Ø 19.1 brazing connection
   RKXYQ8T : Ø 22.2 brazing connection

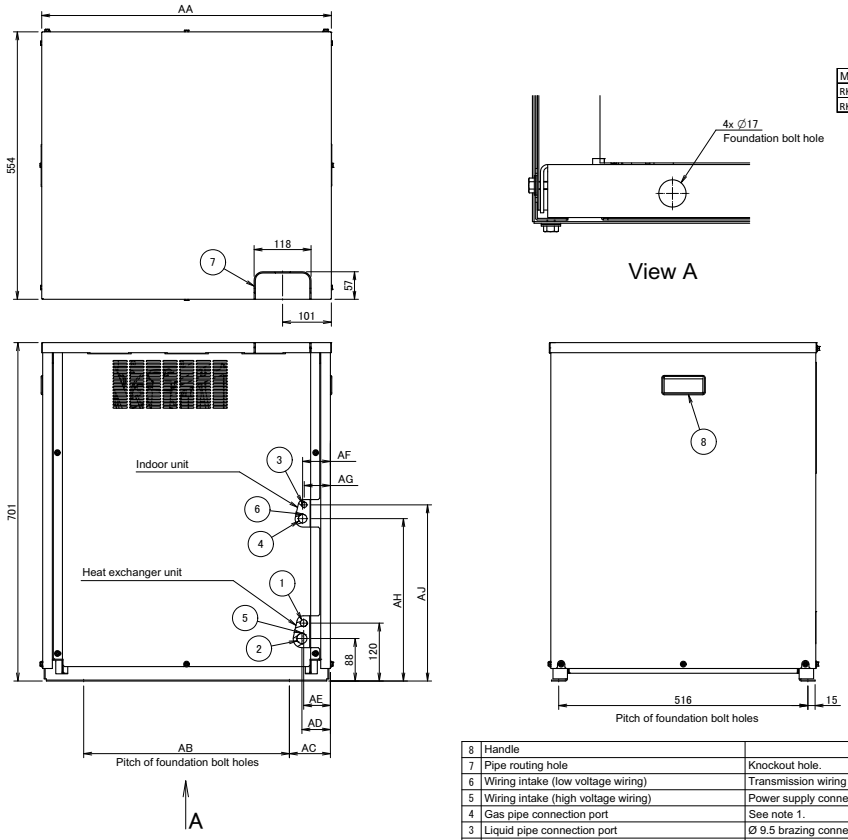
No.	Part name	Remark
8	Handle	
7	Pipe routing hole	Knockout hole.
6	Wiring intake (low voltage wiring)	Transmission wiring connection
5	Wiring intake (high voltage wiring)	Power supply connection
4	Gas pipe connection port	See note 1.
3	Liquid pipe connection port	Ø 9.5 brazing connection
2	Gas pipe connection port	See note 2.
1	Liquid pipe connection port	Ø 12.7 brazing connection

3D098827A

6 Dimensional drawings

6 - 1 Dimensional Drawings

RKXYQ-T



Model	AA	AB	AC	AD	AE	AF	AG	AH	AJ
RKXYQ5T	600	426	85	59	55	57	54	337	365
RKXYQ8T	760	600	78	55	52	55	52	197	222

Notes

1. Indoor unit

   RKXYQ5T : Ø 15.9 brazing connection
   RKXYQ8T : Ø 19.1 brazing connection

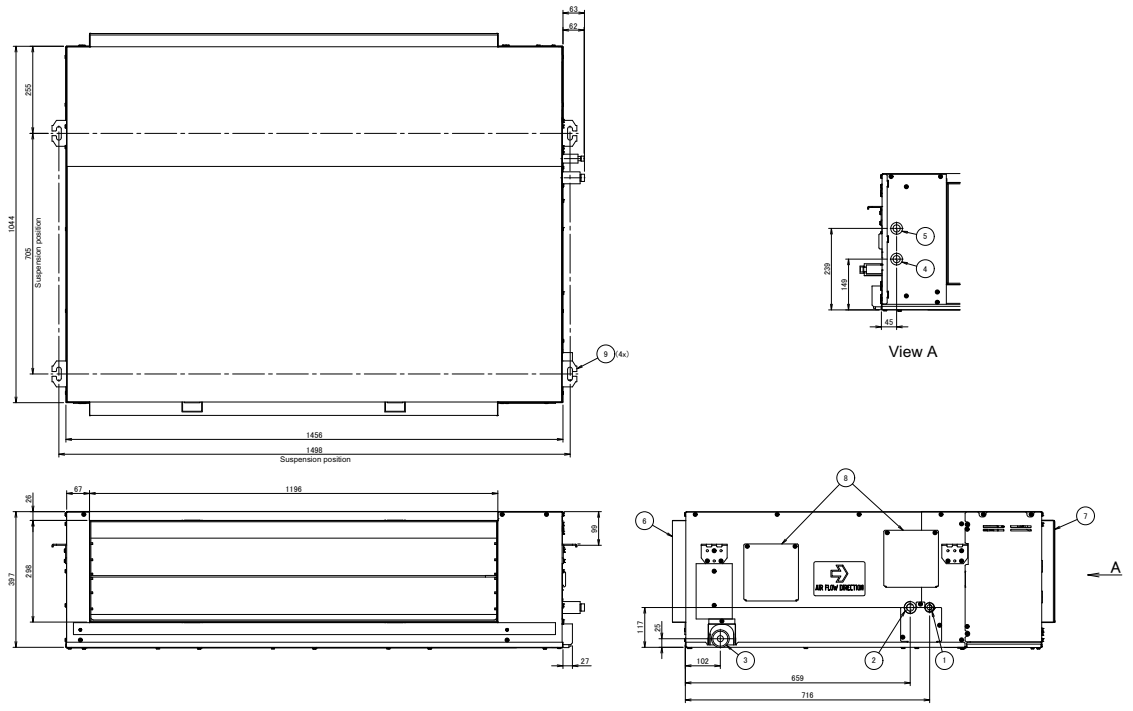
2. Heat exchanger unit

   RKXYQ5T : Ø 19.1 brazing connection
   RKXYQ8T : Ø 22.2 brazing connection

No.	Part name	Remark
8	Handle	
7	Pipe routing hole	Knockout hole.
6	Wiring intake (low voltage wiring)	Transmission wiring connection
5	Wiring intake (high voltage wiring)	Power supply connection
4	Gas pipe connection port	See note 1.
3	Liquid pipe connection port	Ø 9.5 brazing connection
2	Gas pipe connection port	See note 2.
1	Liquid pipe connection port	Ø 12.7 brazing connection

3D098827A

SB.RKXYQ-T



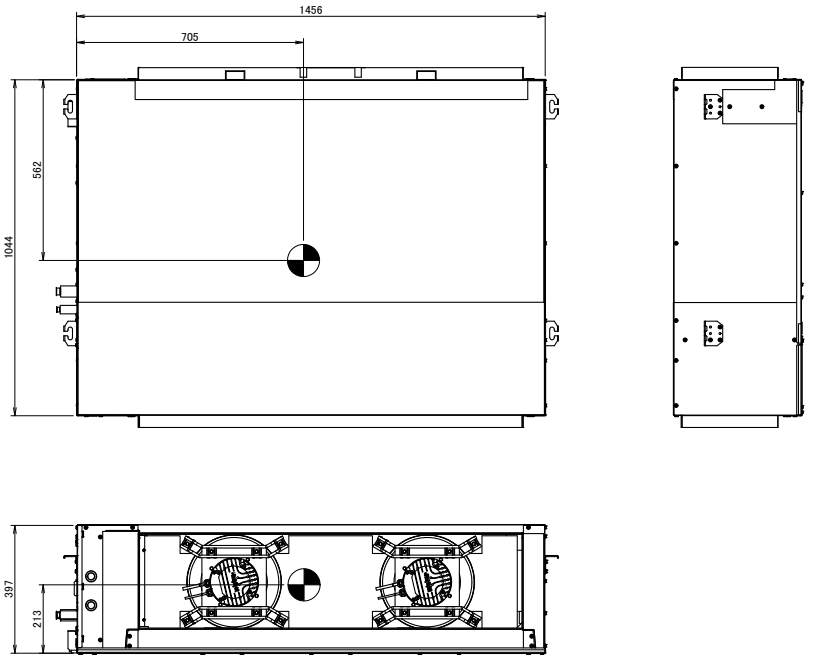
No.	Part name	Remark
9	Hook	
8	Service door	
7	Air discharge side	
6	Air suction side	
5	Wiring intake (low voltage wiring)	Transmission wiring connection
4	Wiring intake (high voltage wiring)	Power supply connection
3	Drain outlet	VP25
2	Gas pipe connection port	Ø 19.1 brazing connection
1	Liquid pipe connection port	Ø 12.7 brazing connection

2D098826

7 Centre of gravity

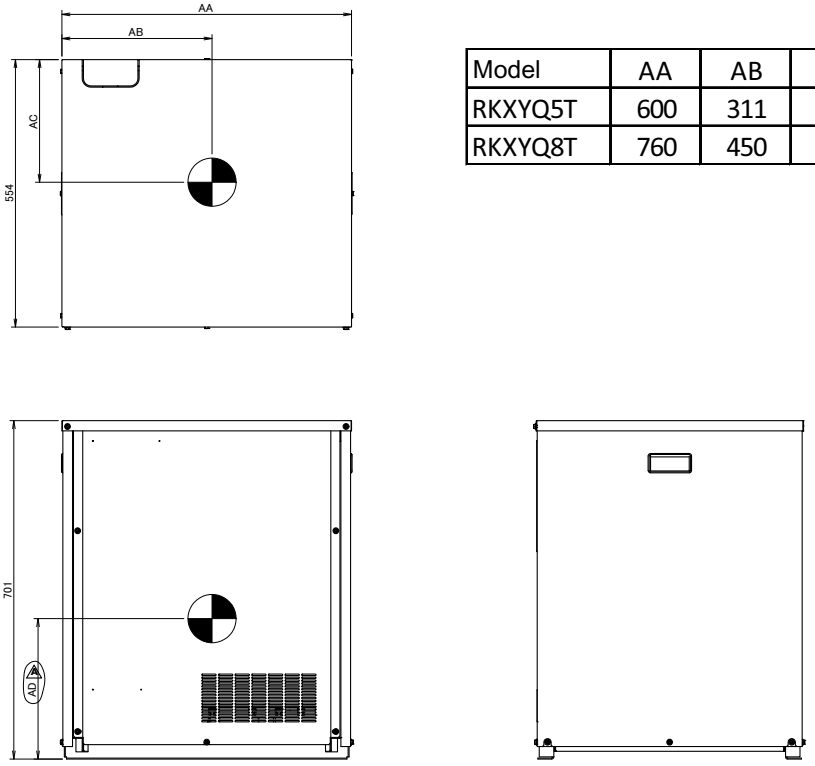
7 - 1 Centre of Gravity

RDXYQ-T8



3D112001

SB.RKXYQ-T8



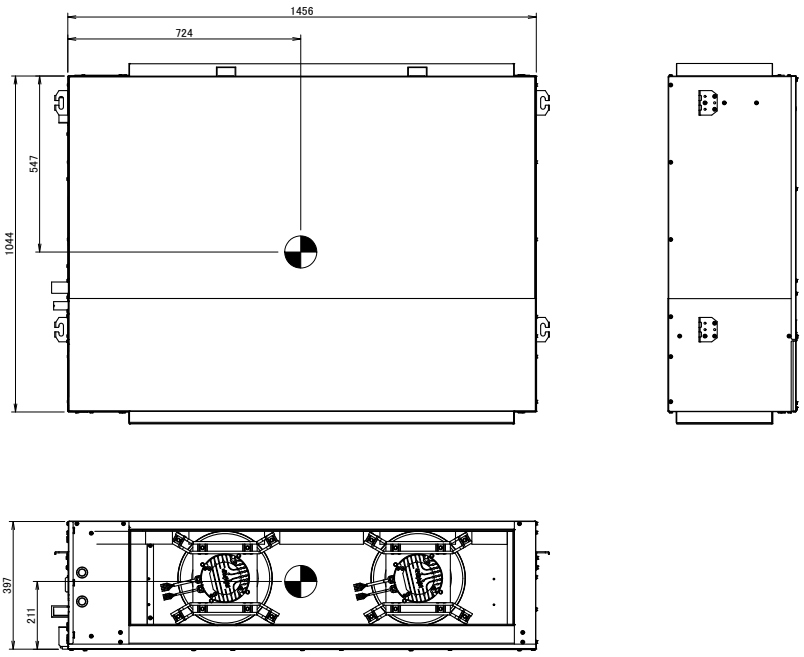
Model	AA	AB	AC	AD
RKXYQ5T	600	311	254	291
RKXYQ8T	760	450	256	292

3D098830A

7 Centre of gravity

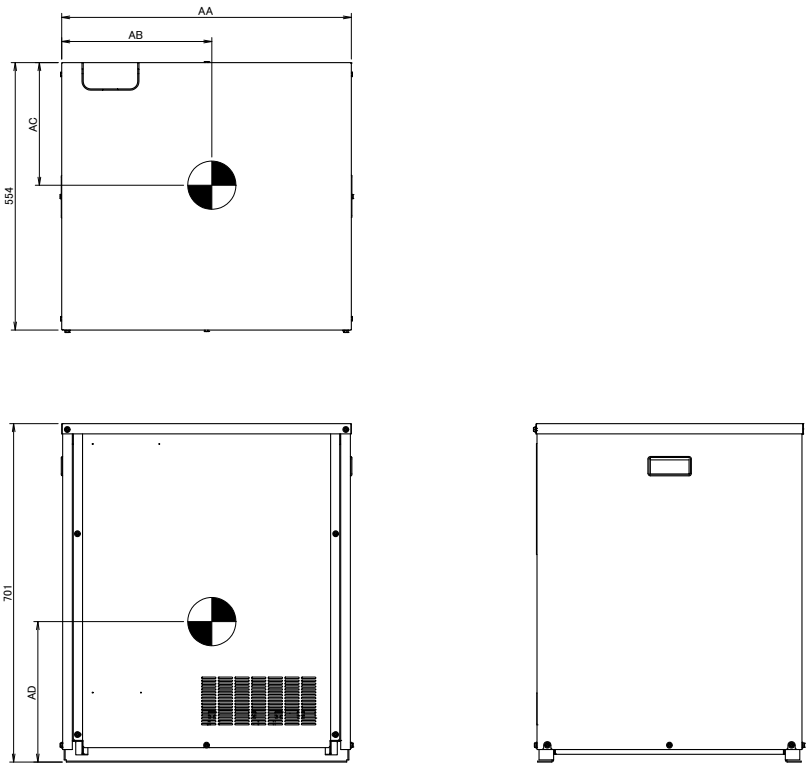
7 - 1 Centre of Gravity

RDXYQ5T



3D098403

SB.RKXYQ-T

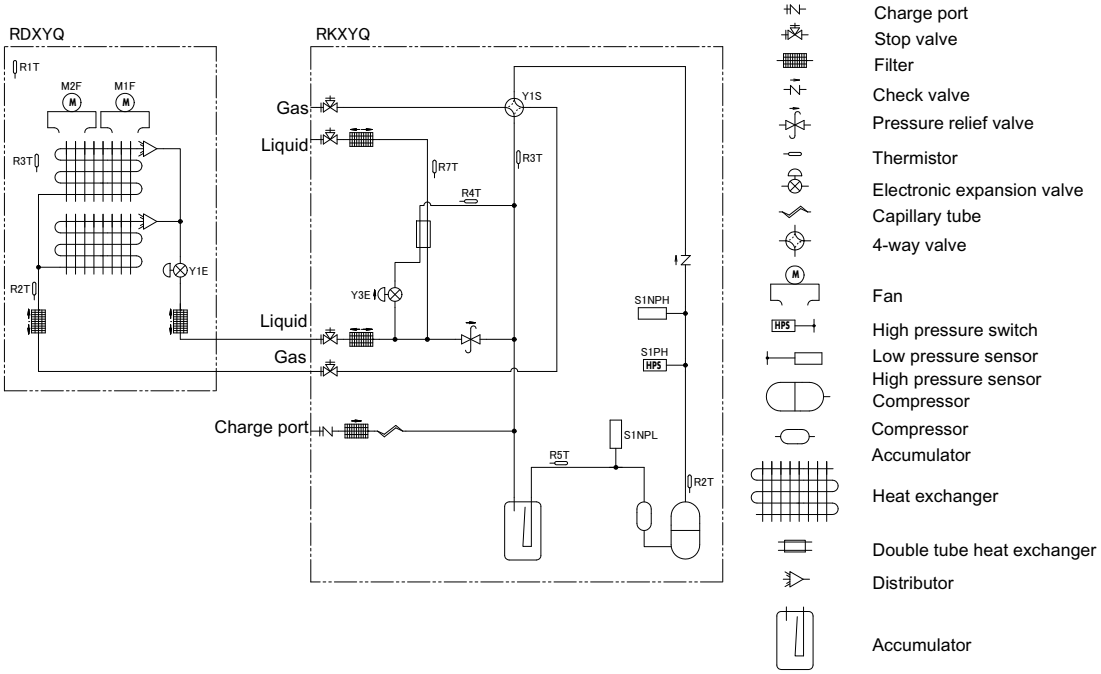


3D098830A

8 Piping diagrams

8 - 1 Piping Diagrams

RDXYQ-T8
RKXYQ-T8



3D110524

SB.RKXYQ-T

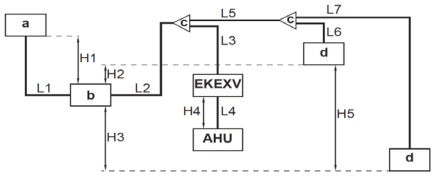
VRV4-i
Heat pump
Piping restrictions

Maximum piping length [m]							
Longest pipe				After first branch		EKEXV ↔ AHU	
Actual		Actual / (Equivalent)		Actual			
a ↔ b		b ↔ d		c ↔ d/AHU			
L1	30	L2+L3+L4	70/(90)	L3+L4	40	L4	5
		L2+L5+L6	70/(90)	L5+L6	40		
		L2+L5+L7	70/(90)	L5+L7	40		

See note 1.

Maximum height difference [m]							
a ↔ b		b ↔ d		d ↔ d		EKEXV ↔ AHU	
H1	±10	H2	±30	H5	±15	H4	±5
		H3	±30				

Model	Total piping length [m]	
	a ↔ b	a ↔ b + b ↔ d
	L1	L1+L2+L3+L4+L5+L6+L7
VRV4-i 5HP	30	115
	25	120
	20	125
	15	130
	10	135
	5	140
VRV4-i 8HP	-	300



a: Heat exchanger unit
b: Compressor unit
c: Refrigerant branch kit
d: VRV DX indoor unit
EKEXV: Expansion valve kit
AHU: Air handling unit (AHU)
H1-H5: Height difference
L1-L7: Piping length

Notes
1. VRV4-i-5HP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

2. VRV4-i-8HP:

If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, it is recommended to increase the size of the main gas pipe (between compressor unit and first refrigerant branch kit).
If the recommended gas pipe (with increased size) is not available, you must use the standard size (which might result in a small capacity decrease).

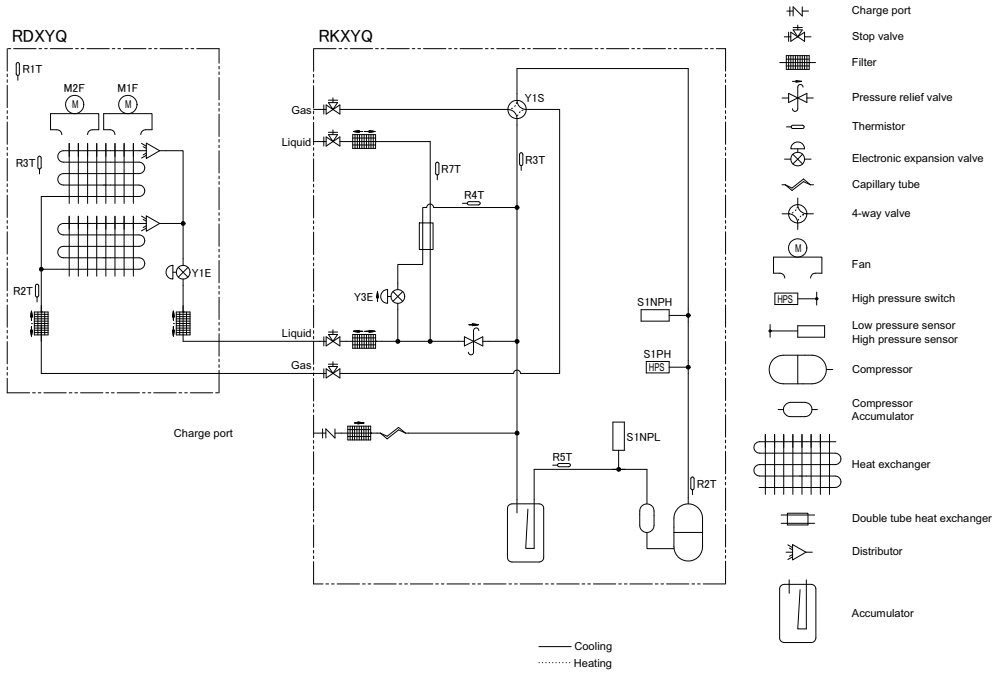
If the equivalent pipe length between the heat exchanger unit and the furthest indoor unit is ≥90m, you MUST increase the size of the main liquid pipe (between compressor unit and first refrigerant branch kit).

3D098836A

8 Piping diagrams

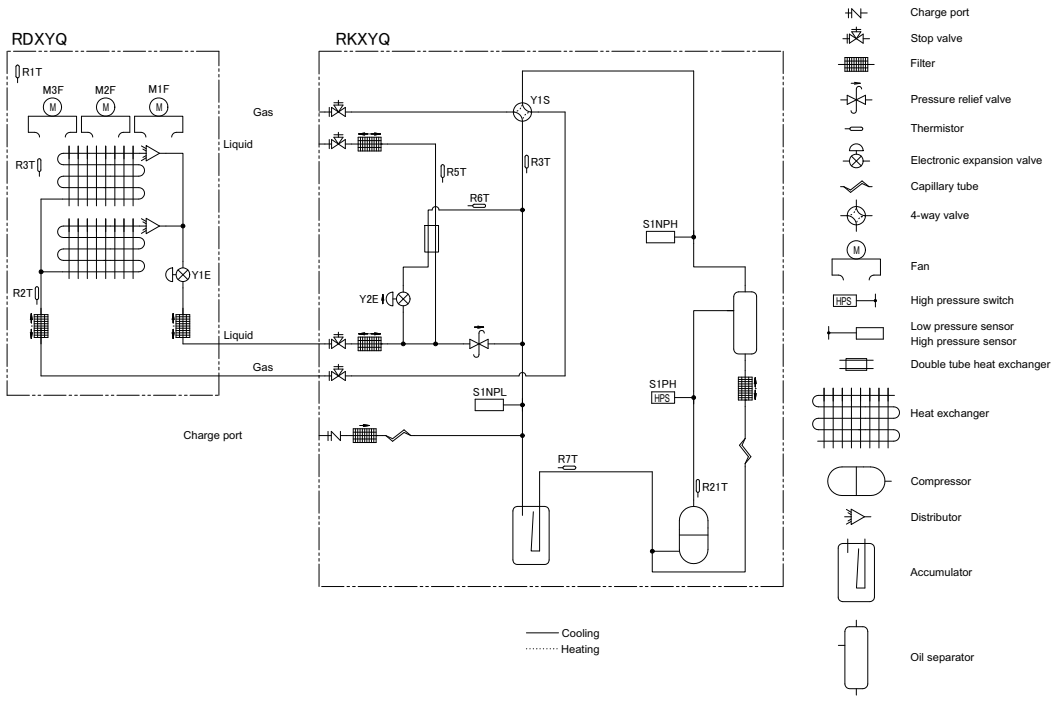
8 - 1 Piping Diagrams

SB.RKXYQ5T



3D098825B

SB.RKXYQ8T



3D104510

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

RKXYQ5T

NOTES to go through before starting the unit

X1M : Main terminal

: Earth wiring

15 : Wire number 15

: Field wire

: Field cable

**/12.2 : Connection ** continues on page 12 column 2

1 : Several wiring possibilities

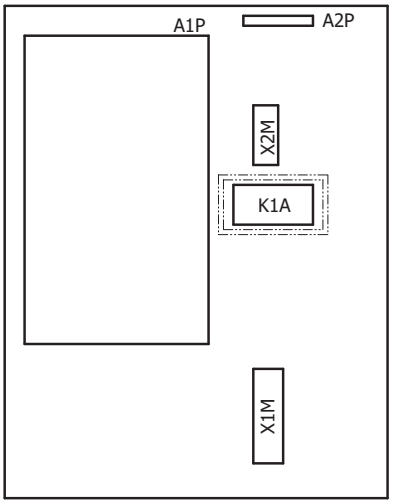
: Option

: Wiring depending on model

: Not mounted in switch box

: PCB

POSITION IN SWITCH BOX



LEGEND

Part n°		Description
A1P		main PCB
A2P		adapter PCB
C1 (A1P)		capacitor
E1H	*	drain pan heater
F1U	*	fuse F 1 A 250 V
F1U (A1P)		fuse T 6.3 A 250 V for PCB
HAP (A1P)		running LED (service monitor-green)
K1A	*	auxilary relay
M*F		motor (fan)
Q1DI	#	earth leakage circuit breaker
PS (A1P)		switching power supply
R1T		thermistor air
R2T		thermistor gas
R3T		thermistor coil
V1R (A1P)		diode module
X1M		main terminal
X2M		field wiring terminal
X*Y		connector
Y1E		electronic expansion valve
Z1C		ferrite core
Z1F (A1P)		noise filter

* : optional

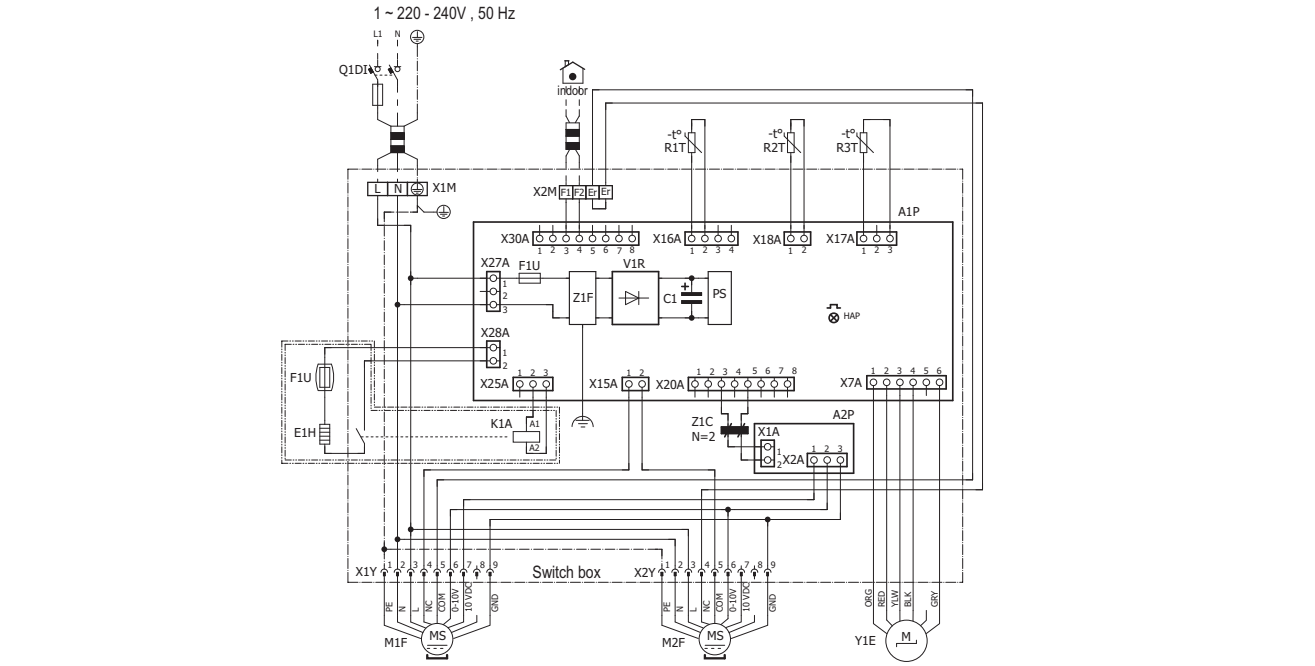
\# : field supply

4D105518

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

RKXYQ5T8

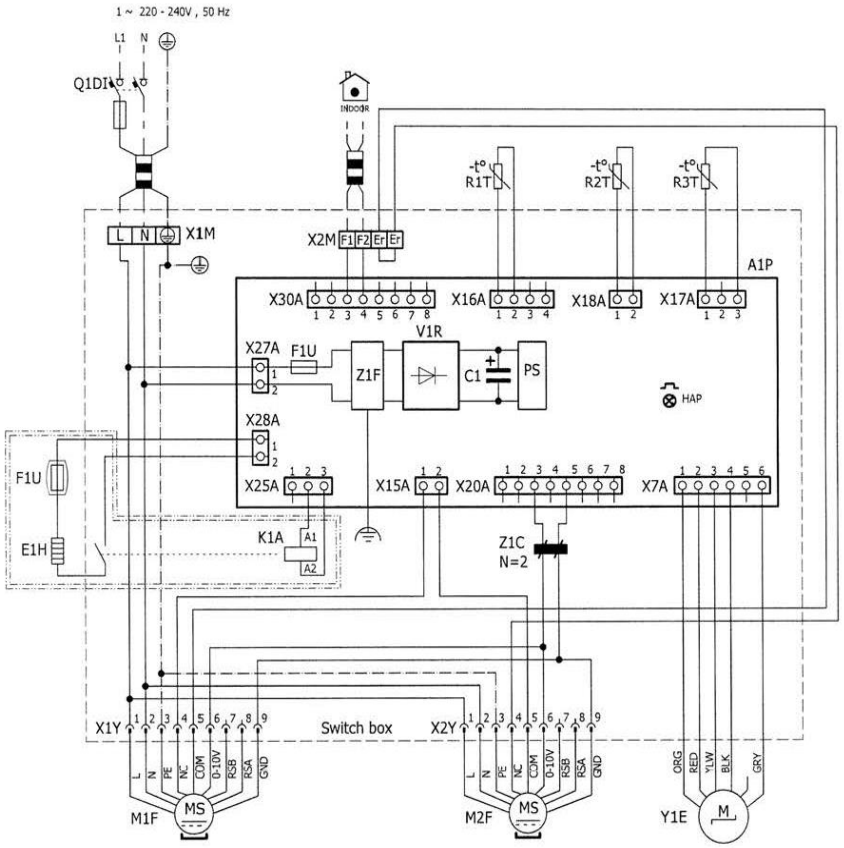


4D105518

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

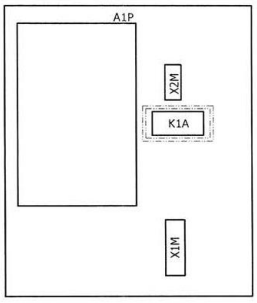
RDXYQ5T



NOTES to go through before starting the unit

X1M	: Main terminal
15	: Earth wiring
	: Wire number 15
	: Field wire
	: Field cable
**/12.2	: Connection ** continues on page 12 column 2
1	: Several wiring possibilities
	: Option
	: Not mounted in switch box
	: Wiring depending on model
	: PCB

POSITION IN SWITCH BOX



LEGEND

Translation can be found in the installation manual.

Part n°		Description
A1P		main PCB
C1 (A1P)		capacitor
E1H	*	drain pan heater
F1U	*	fuse F 1 A 250 V
F1U (A1P)		fuse T 6.3 A 250 V for PCB
HAP (A1P)		running LED (service monitor-green)
K1A	*	auxilary relay
M*F		motor (fan)
Q1DI	#	earth leakage circuit breaker
PS (A1P)		switching power supply
R1T		thermistor air
R2T		thermistor gas
R3T		thermistor coil
V1R (A1P)		diode module
X1M		main terminal
X2M		field wiring terminal
X*M		terminal strip
X*Y		connector
Y1E		electronic expansion valve
Z1C		ferrite core
Z1F (A1P)		noise filter

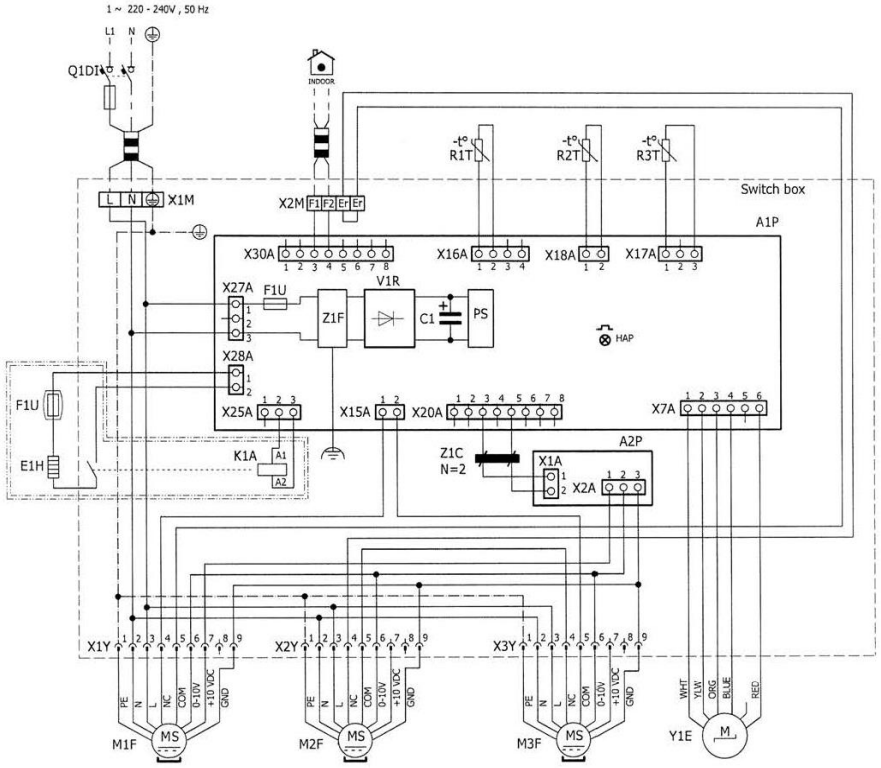
* : optional
# : field supply

4D096977C

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

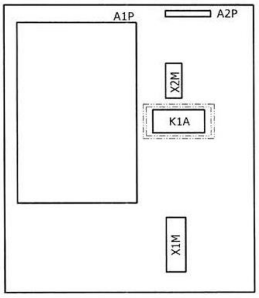
RDXYQ8T



NOTES to go through before starting the unit

X1M	: Main terminal
	: Earth wiring
15	: Wire number 15
	: Field wire
	: Field cable
→ **/12.2	: Connection ** continues on page 12 column 2
①	: Several wiring possibilities
	: Option
	: Not mounted in switch box
	: Wiring depending on model
	: PCB

POSITION IN SWITCH BOX



LEGEND

Translation can be found in the installation manual.

Part n°		Description
A1P		main PCB
A2P		adapter PCB
C1 (A1P)		capacitor
E1H	*	drain pan heater
F1U	*	fuse F 1 A 250 V
F1U (A1P)		fuse T 6.3 A 250 V for PCB
HAP (A1P)		running LED (service monitor-green)
K1A	*	auxilary relay
M*F		motor (fan)
Q1DI	#	earth leakage circuit breaker
PS (A1P)		switching power supply
R1T		thermistor air
R2T		thermistor gas
R3T		thermistor coil
V1R (A1P)		diode module
X1M		main terminal
X2M		field wiring terminal
X*Y		connector
Y1E		electronic expansion valve
Z1C		ferrite core
Z1F (A1P)		noise filter

* : optional
\# : field supply

4D104741A

9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

RKXYQ5T8

NOTES to go through before starting the unit

X1M : Main terminal

: Earth wiring

15 : Wire number 15

: Field wire

: Field cable

**/12.2 : Connection ** continues on page 12 column 2

1 : Several wiring possibilities

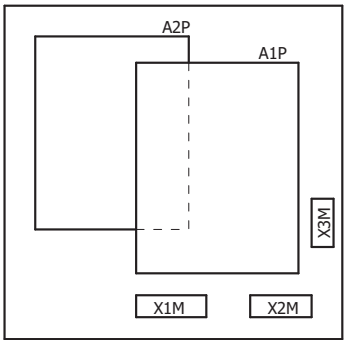
: Option

: Wiring depending on model

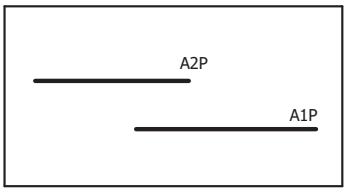
: Not mounted in switch box

: PCB

POSITION IN SWITCH BOX



Front side



Upper side

LEGEND

Part n°		Description
A1P		main PCB
A2P		inverter PCB (INV)
BS* (A1P)		push button
C* (A2P)		capacitor
DS1 (A1P)		dipswitch
E1HC		crankcase heater
F1U (A1P)		fuse T 31,5 A 250 V for PCB
F2U (A1P)		fuse T 31,5 A 250 V for PCB
F3U (A1P)		fuse T 6,3 A 250 V for PCB
F5U (A1P)		fuse T 6,3 A 250 V for PCB
H*P (A1P)		LED (service monitor-orange)
HAP (A*P)		running LED (service monitor-green)
K1M (A2P)		magnetic contactor
K1R (A*P)		magnetic relay
K4R (A1P)		magnetic relay (E1HC)
L1R		reactor
M1C		motor (compressor)
M1F		motor (FAN)
PS (A2P)		switching power supply
Q1DI		earth leakage circuit breaker
R* (A2P)		resistor
R2T		thermistor (discharge)

Part n°		Description
R3T		thermistor (suction accumulatior)
R4T		thermistor (subcool HE gas)
R5T		thermistor (suction compressor)
R7T		thermistor (liquid)
R10T		thermistor (fin)
S1NPL		pressure sensor (low)
S1NPH		pressure sensor (high)
S1PH		high pressure switch
S*S	*	switch cool/heat selector
V1R (A2P)		IGBT power module
V2R (A2P)		diode module
X1M		terminal strip (power supply)
X2M		terminal strip (low voltage)
X3M		terminal strip (cool/heat selector)
X*Y		connector
Y1S		solenoïd valve (4 way valve)
Y3E		electronic expansion valve
Z*C		noise filter (ferrit core)
Z*F (A1P)		noise filter

* : optional

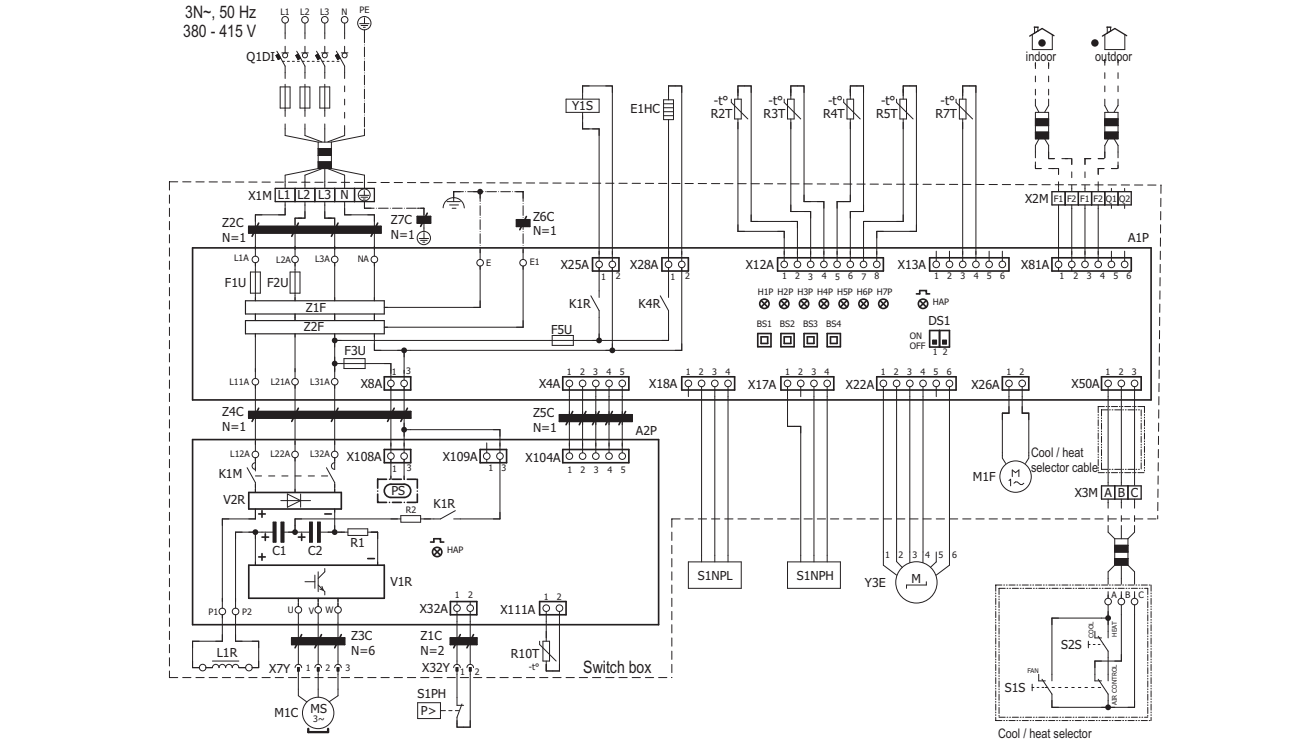
\# : field supply

4D096978B

9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

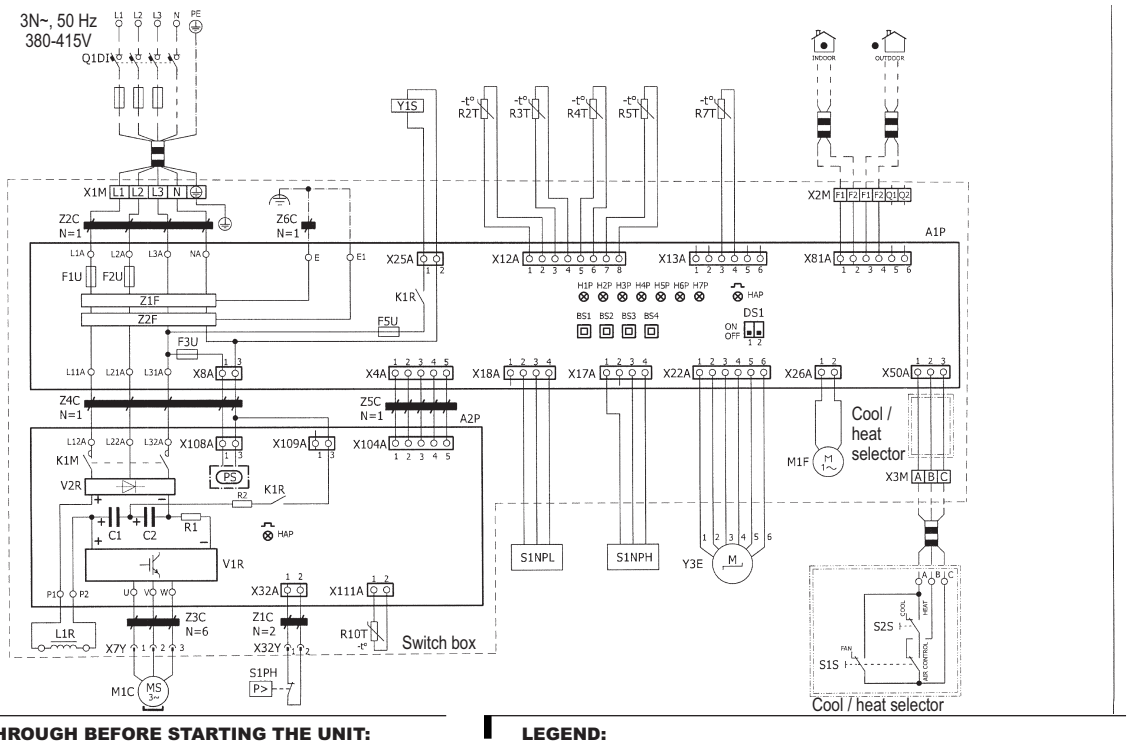
RKXYQ5T8



9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

RKXYQ5T7Y1B



NOTES TO GO THROUGH BEFORE STARTING THE UNIT:

X1M: Main terminal

: Earth wiring

15 : Wire number 15

: Field wire

: Field cable

**/12.2 : Connection ** continues on page 12 colum 2

(1) : Several wiring possibilities

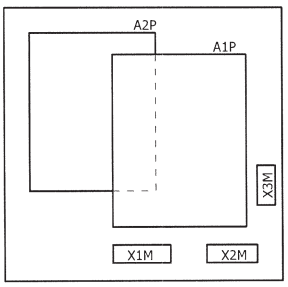
: Option

: Wiring depending on model

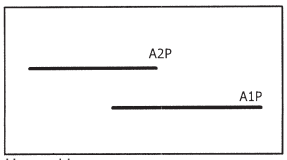
: Not mounted in switch box

: PCB

POSITION IN SWITCH BOX:



Front side



Upper side

LEGEND:

Part n°		Description
A1P		Main PCB
A2P		Inverter PCB (INV)
BS* (A1P)		Push button
C* (A2P)		Capacitor
DS1 (A1P)		Dipswitch
F1U (A1P)		Fuse (T, 31.5A, 250V) for PCB
F2U (A1P)		Fuse (T, 31.5A, 250V) for PCB
F3U (A1P)		Fuse (T, 6.3A, 250V) for PCB
F5U (A1P)		Fuse (T, 6.3A, 250V) for PCB
H*P (A1P)		LED (service monitor-orange)
HAP (A*P)		Running LED (service monitor-green)
K1M (A2P)		Magnetic contactor
K1R (A*P)		Magnetic relay
L1R		Reactor
M1C		Motor (compressor)
M1F		Motor (fan)
PS (A21P)		Switching power supply
Q1DI		Earth leakage circuit breaker
R* (A2P)		Resistor
R2T		Thermistor (discharge)
R3T		Thermistor (suction accumulator)
R4T		Thermistor (subcool HE gas)
R5T		Thermistor (suction compressor)
R7T		Thermistor (liquid)
R10T		Thermistor (fin)
S1NPL		Pressure sensor (low)
S1NPH		Pressure sensor (high)
S1PH		High pressure switch
S*S	*	Switch cool/heat selector
V1R (A2P)		IGBT power module
V2R (A2P)		Diode module
X1M		Terminal strip (power supply)
X2M		Terminal strip (low voltage)
X3M		Terminal strip (cool/heat selector)
X*Y		Connector
Y3E		Electronic expansion valve
Y1S		Solenoid valve (4 way valve)
Z*C		Noise filter (ferrite core)
Z*F (A1P)		Noise filter

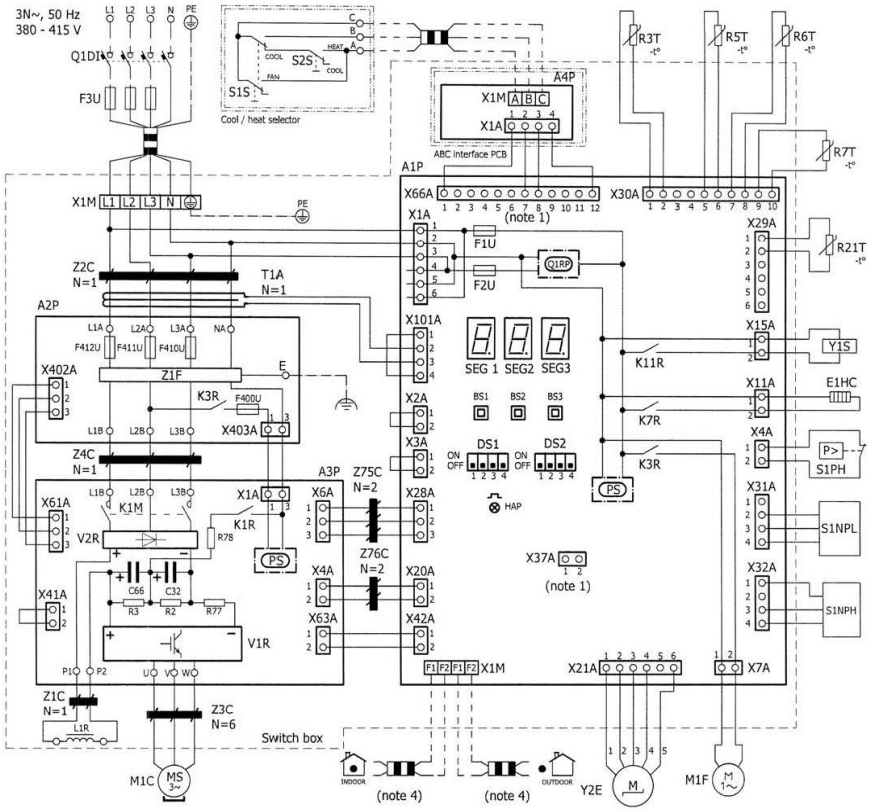
*: Optional
#: Field supply

4D096978A

9 Wiring diagrams

9 - 2 Wiring Diagrams - Three Phase

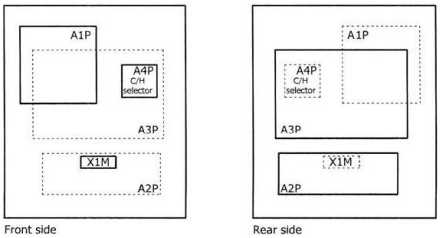
RKXYQ8T



NOTES to go through before starting the unit

1. Symbols :
   - X1M : Main terminal
   - : Earth wiring
   - 15 : Wire number 15
   - : Field wire
   - : Field cable
   - **/12.2 : Connection ** continues on page 12 column 2
   - (1) : Several wiring possibilities
   - : Option
   - : Not mounted in switch box
   - : Wiring depending on model
   - : PCB
2. When using the optional adapter, refer to the installation manual of the optional adapter.
3. Refer to the installation or service manual on how to use BS1 ~ BS3 push buttons and DS1 ~ DS2 DIP switches.
4. Do not operate the unit by short-circuiting protection device (S1PH).
5. For connection to indoor-outdoor transmission F1-F2 wiring, outdoor - outdoor transmission F1-F2, refer to "service manual".

POSITION IN SWITCH BOX



LEGEND

Translation can be found in the installation manual.

Part n°		Description
A1P		main PCB
A2P		noise filter PCB
A3P		inverter PCB
A4P		cool/heat selector PCB
BS* (A1P)		push buttons (mode , set, return)
C* (A3P)		capacitors
DS* (A1P)		dipswitch
E1HC		crankcase heater
F*U (A1P)		fuse T 3,15 A 250 V
F3U		field fuse
F400U (A2P)		fuse T 6.3 A 250 V
F410U (A2P)		fuse T 40 A 500 V
F411U (A2P)		fuse T 40 A 500 V
F412U (A2P)		fuse T 40 A 500 V
HAP (A1P)		running LED (service monitor-green)
K1M (A3P)		magnetic contactor
K*R (A*P)		magnetic relay
L1R		reactor
M1C		motor (compressor)
M1F		motor (fan)
PS (A1P,A3P)		power supply
Q1DI	#	earth leakage circuit breaker
Q1RP (A1P)		phase reversal detect circuit
R21T		thermistor (M1C discharge)
R3T		thermistor (accumulator)

Part n°		Description
R5T		thermistor (subcool liquid. pipe)
R6T		thermistor (heat exchanger gas pipe)
R7T		thermistor (suction)
R* (A3P)		resistor
S1NPH		high pressure sensor
S1NPL		low pressure sensor
S1PH		high pressure switch (disch)
S1S	*	air control switch
S2S	*	cool / heat switch
SEG1 SEG3		7-segment display
T1A		current sensor
V1R (A3P)		IGBT power module
V2R (A3P)		diode module
X37A	*	connector (power supply for option PCB)
X66A	*	connector (remote switching cool/heat selector)
X1M		terminal strip (power supply)
X*A		PCB connector
X*M (A*P)		terminal strip on PCB
X*Y		connector
Y2E		electronic expansion valve
Y*S		solenoid valve (4-way valve)
Z*C		noise filter (ferrit core)
Z*F		noise filter

* : optional
\# : field supply

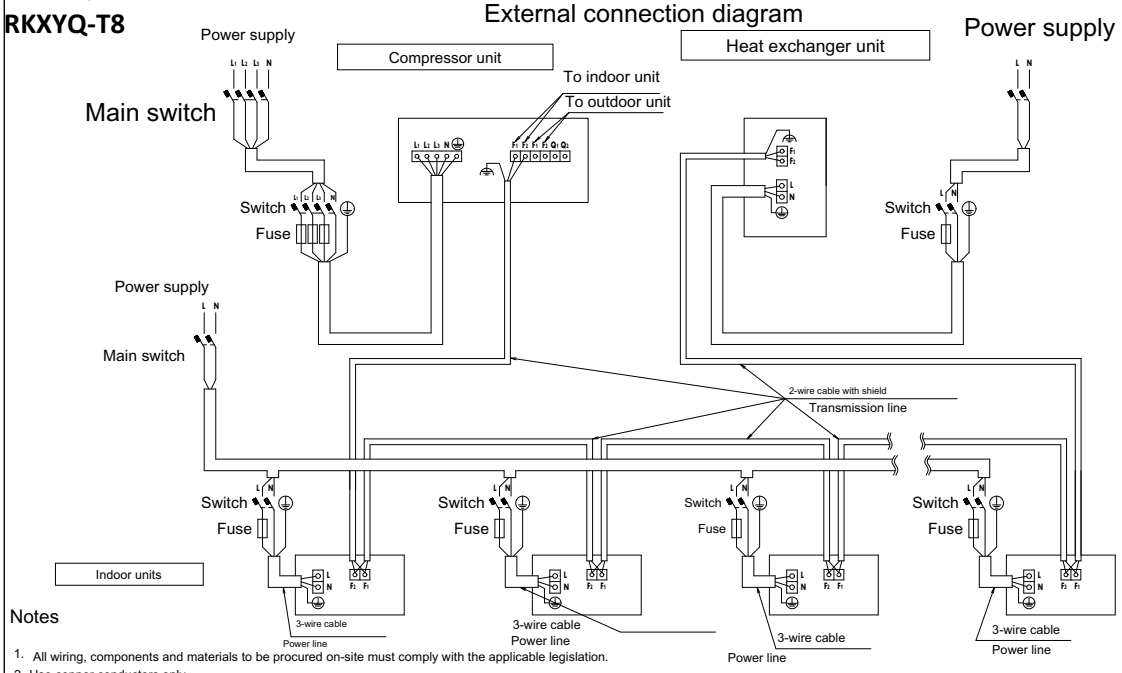
4D102116A

10 External connection diagrams

10 - 1 External Connection Diagrams

RDXYQ-T8
RKXYQ-T8

External connection diagram

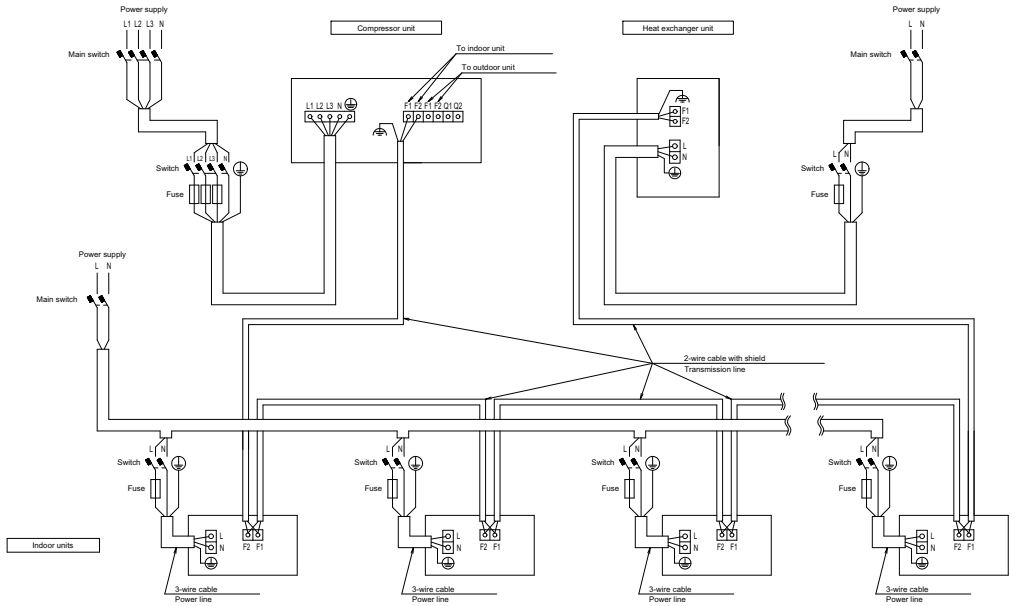


Notes

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 equipement.
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. To ensure proper earthing, connect the shields of the incoming and outgoing transmission wiring of each indoor unit to each other.
13. The main line is the line to which the transmission wiring of the heat exchanger unit is connected.

2D098837A

SB.RKXYQ-T External connection diagram



Notes

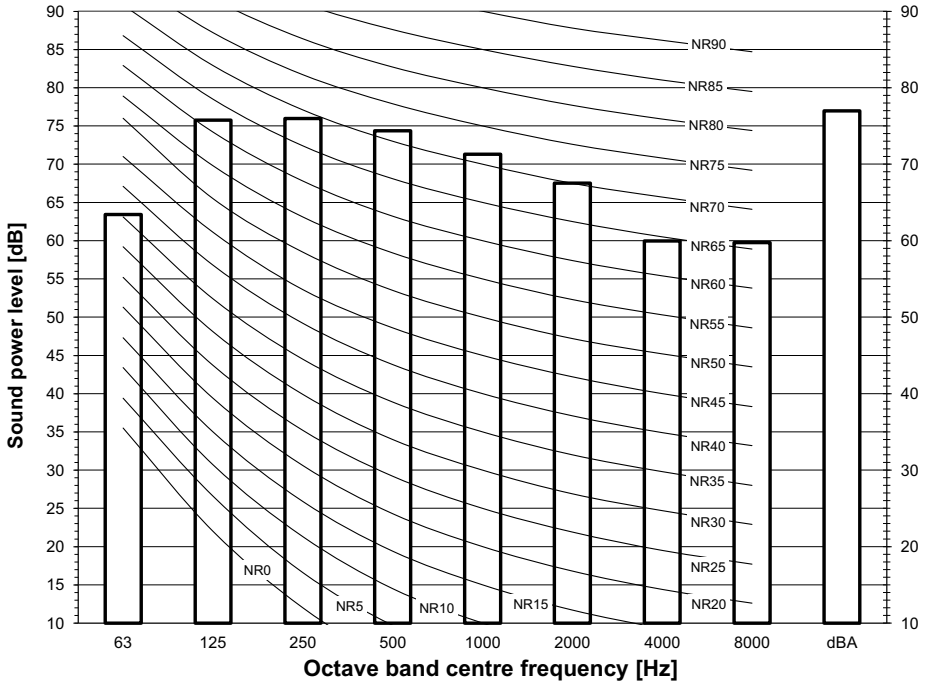
1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised 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 equipement.
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. To ensure proper earthing, connect the shields of the incoming and outgoing transmission wiring of each indoor unit to each other.
13. The main line is the line to which the transmission wiring of the heat exchanger unit is connected.

2D098837A

11 Sound data

11 - 1 Sound Power Spectrum

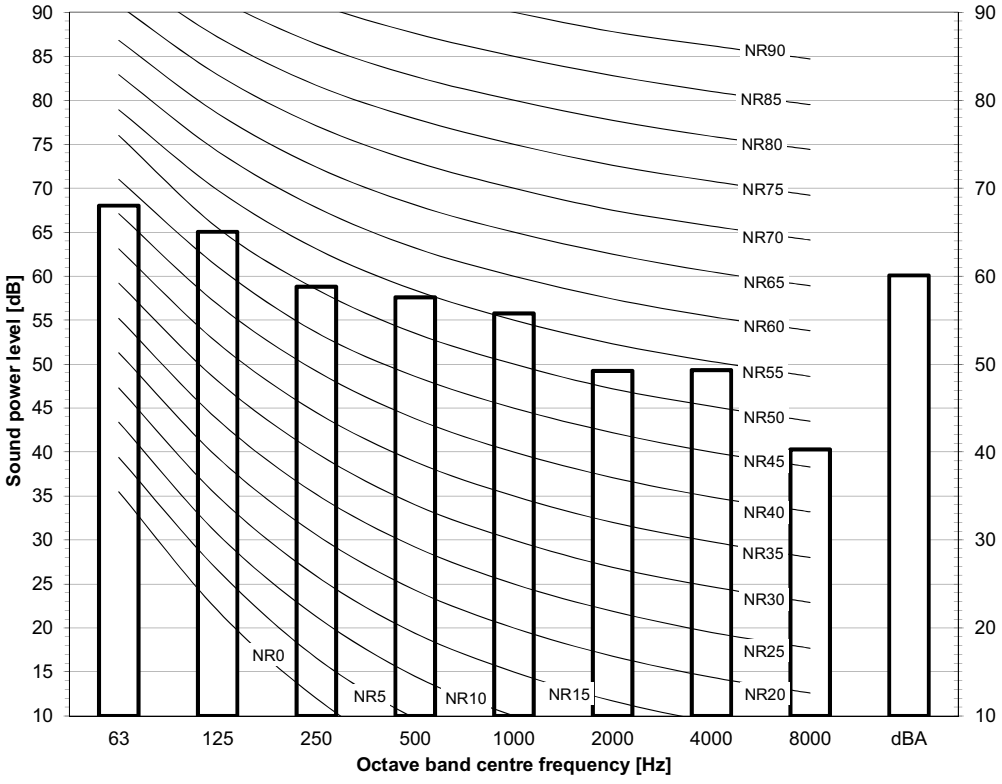
RDXYQ5T8



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = ·10E-6µW/m²·
- Measured according to ISO 3744

3D099602A

RKXYQ5T8



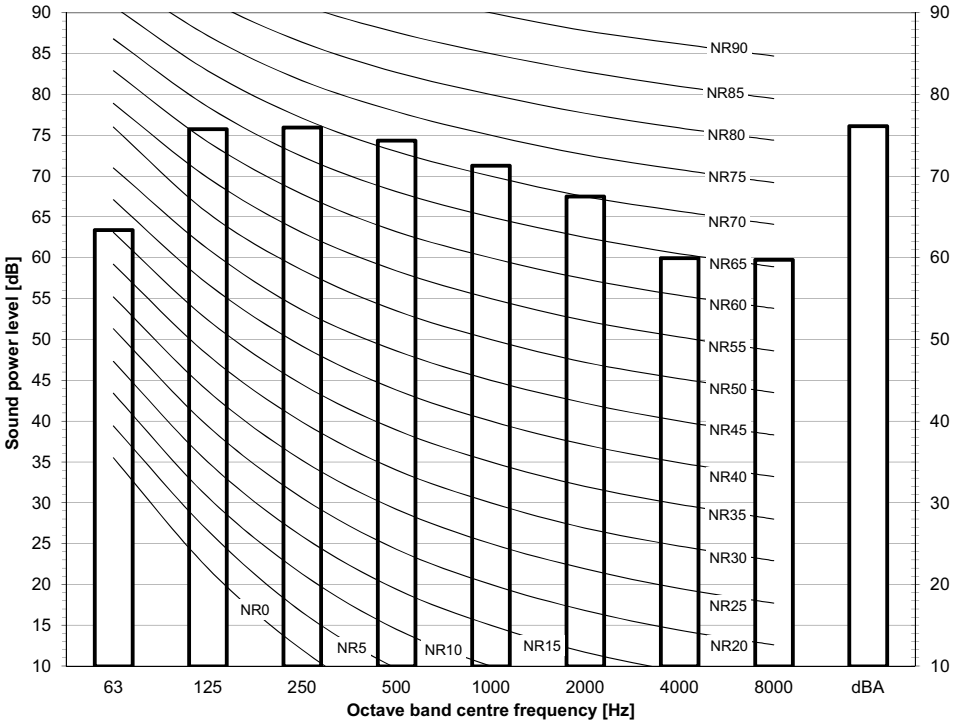
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D099625

11 Sound data

11 - 1 Sound Power Spectrum

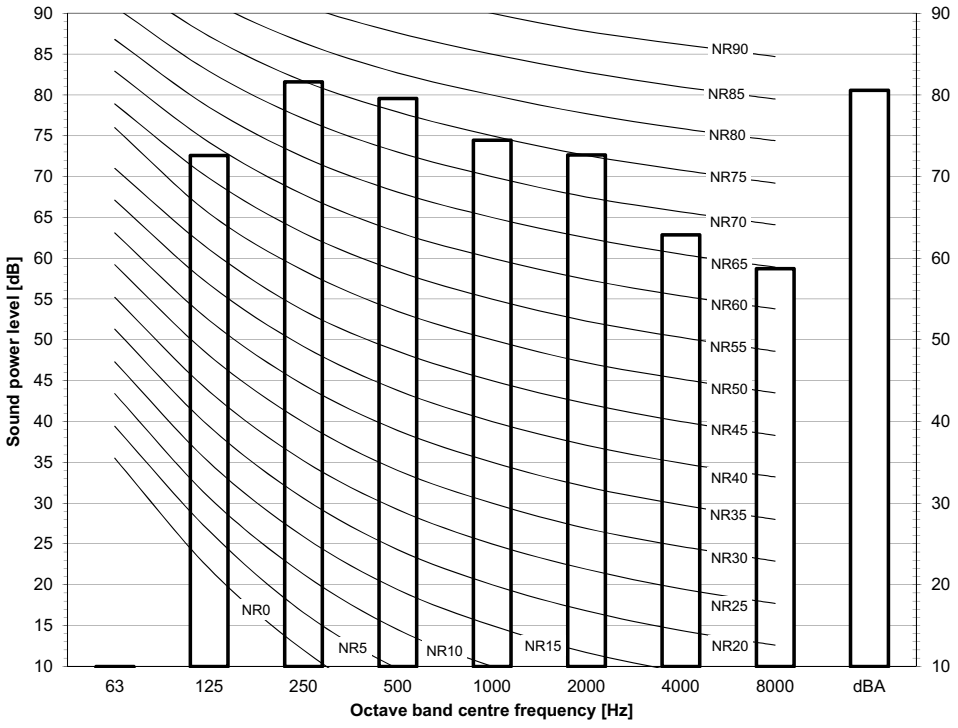
RDXYQ5T



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

3D099602

RDXYQ8T



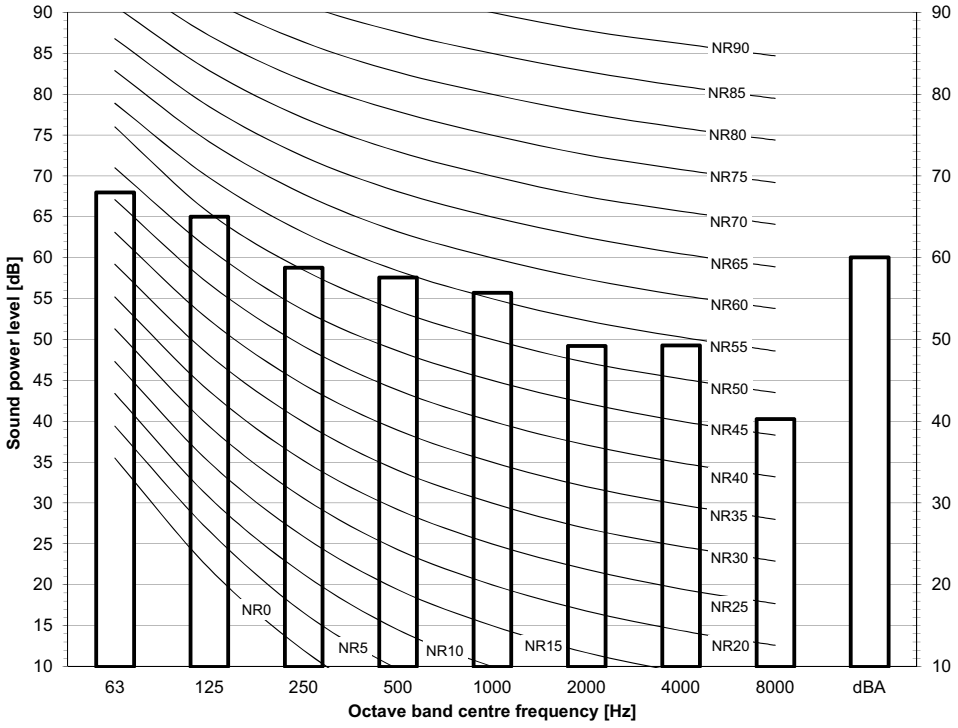
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

3D105985

11 Sound data

11 - 1 Sound Power Spectrum

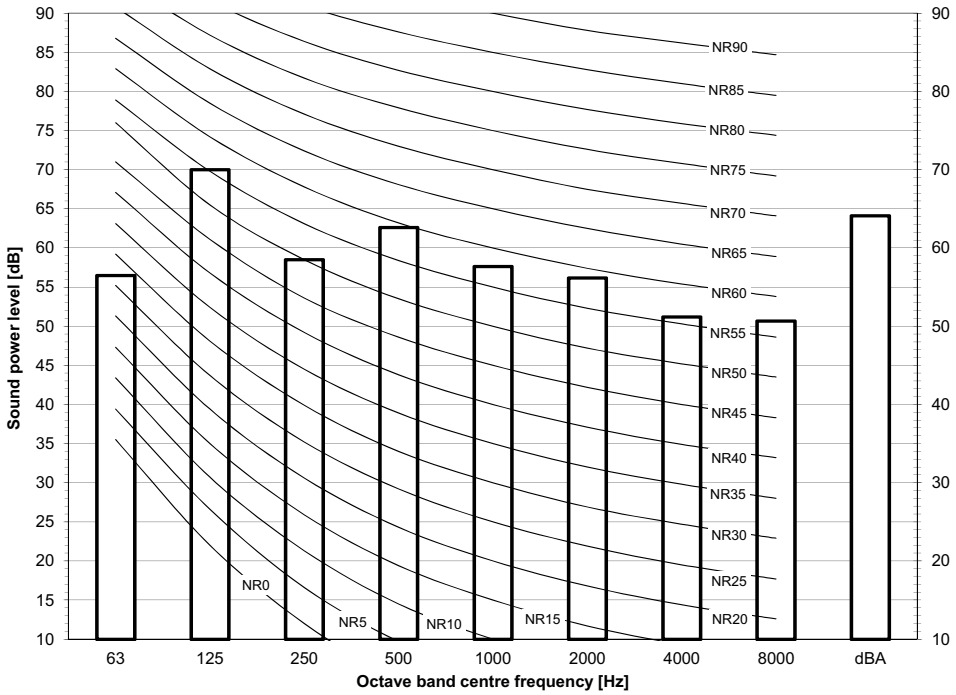
RKXYQ5T



Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D099625

RKXYQ8T



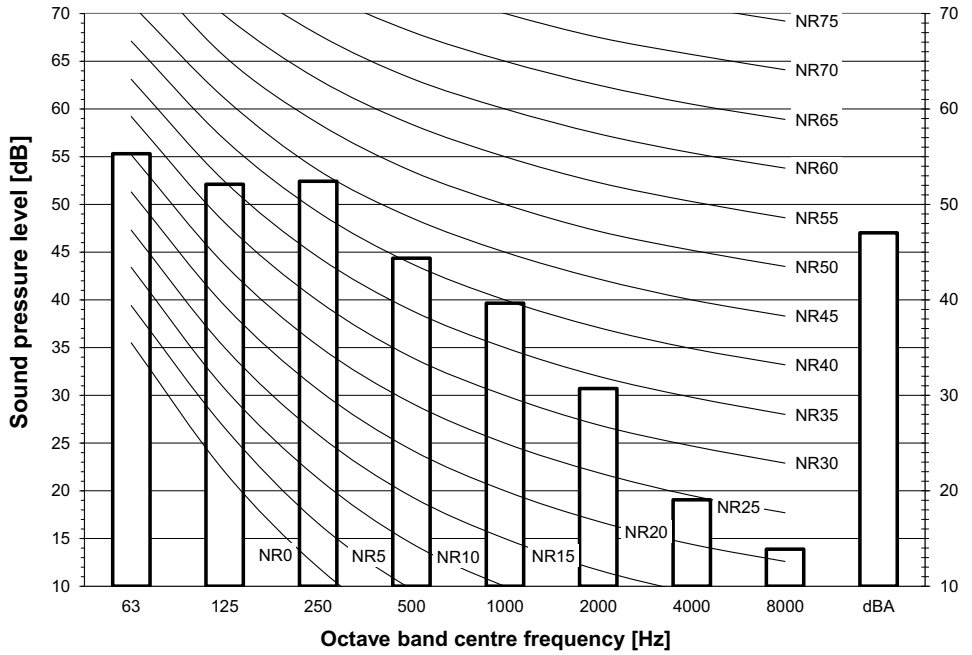
Notes
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Measured according to ISO 3744

3D106014

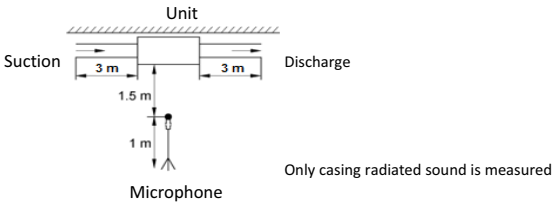
11 Sound data

11 - 2 Sound Pressure Spectrum

RDXYQ5T8

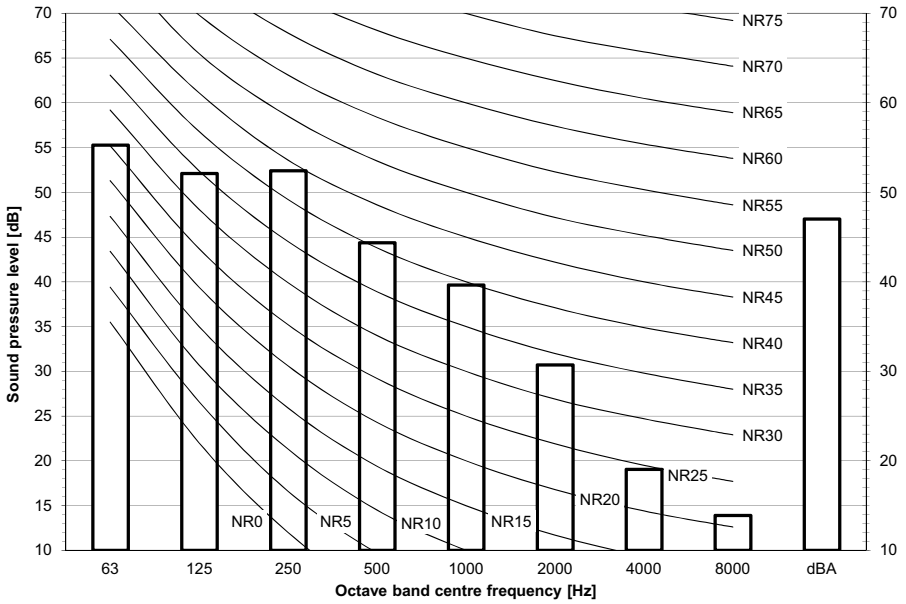


Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa

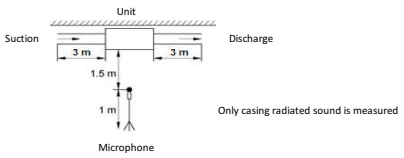


3D098852

RDXYQ5T



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

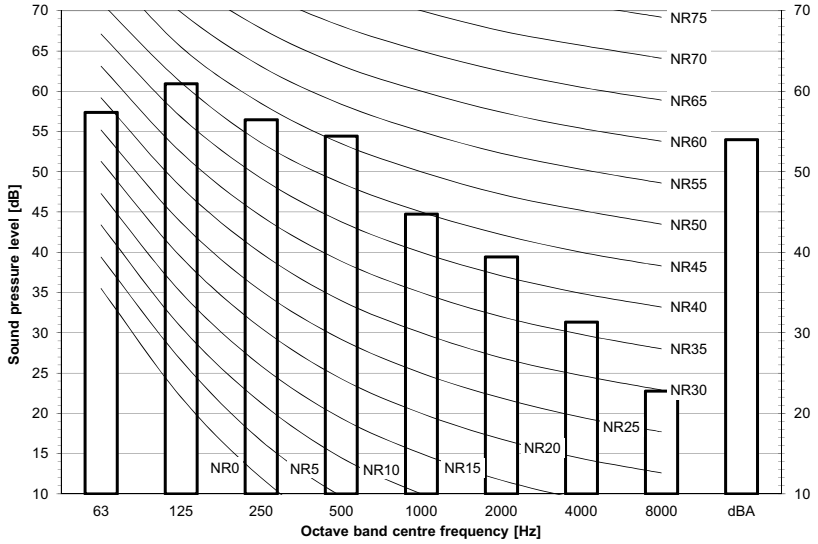


3D098852

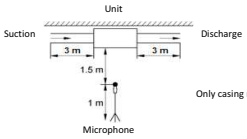
11 Sound data

11 - 2 Sound Pressure Spectrum

RDXYQ8T



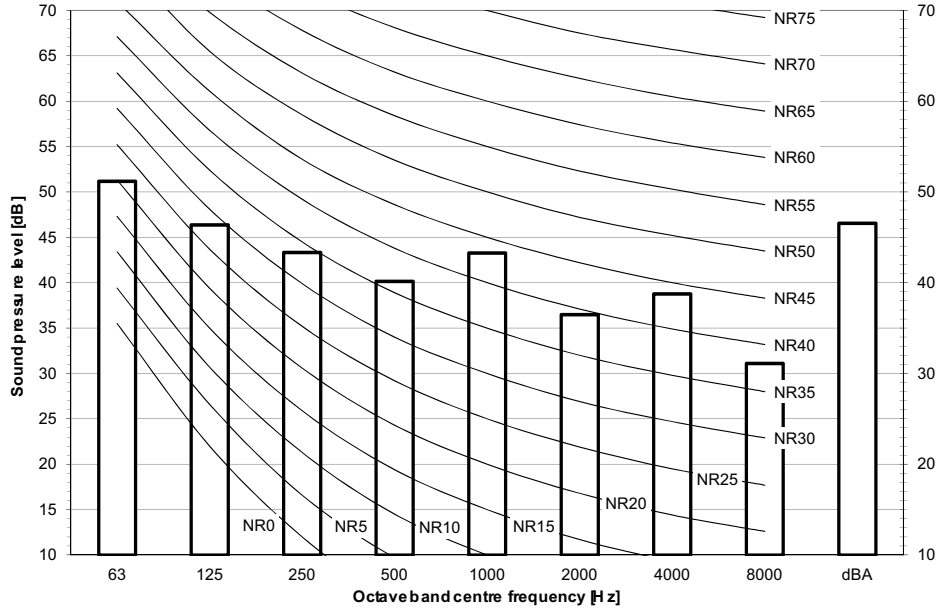
Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa



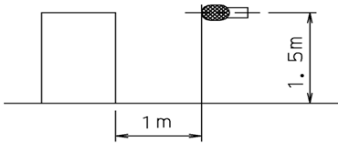
Only casing radiated sound is measured

3D105965

RKXYQ5T



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

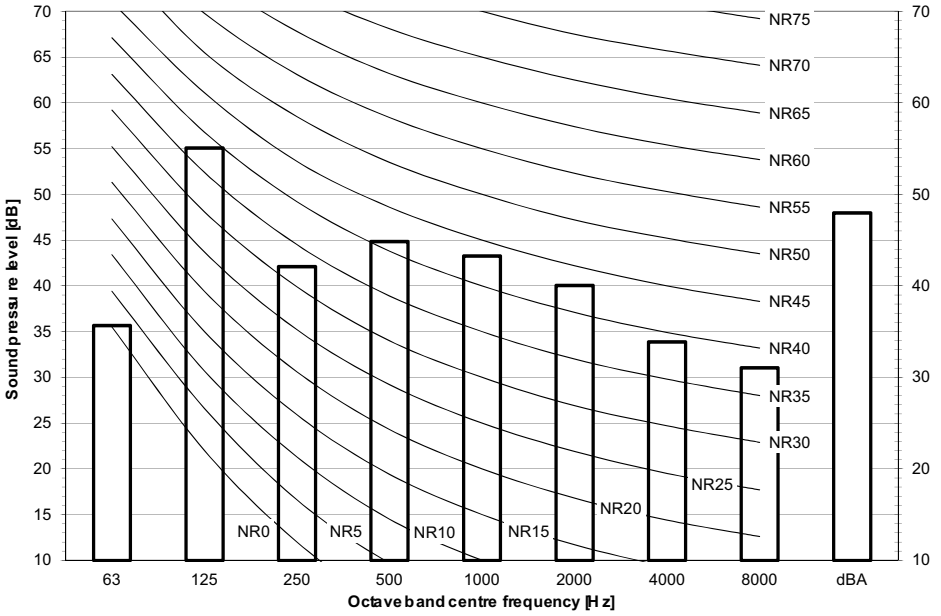


3D099621

11 Sound data

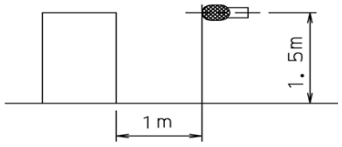
11 - 2 Sound Pressure Spectrum

RKXYQ8T



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

Data is valid under the following conditions
- Cooling operation
- Outdoor Ta: 35°C



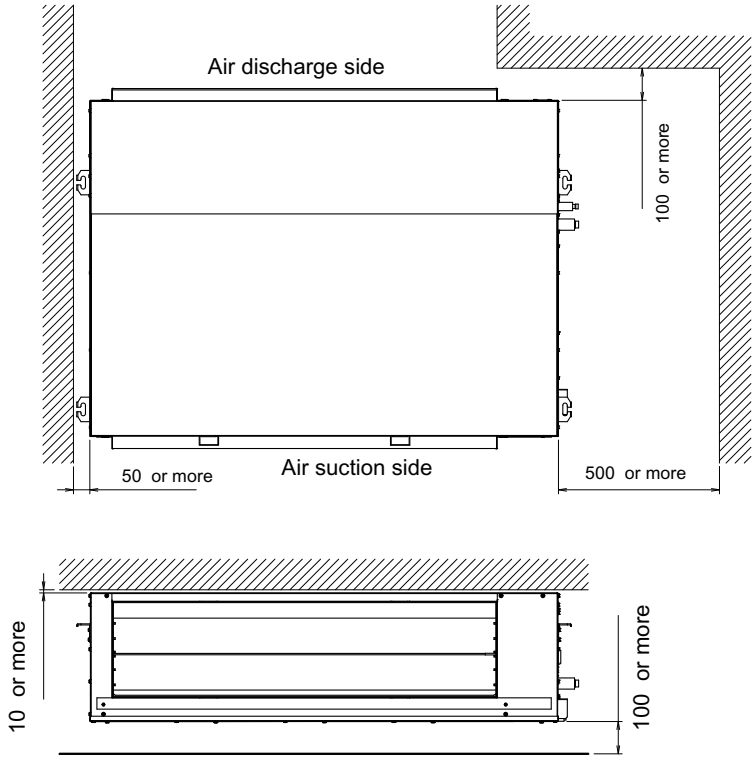
3D106018

12 Installation

12 - 1 Installation Method

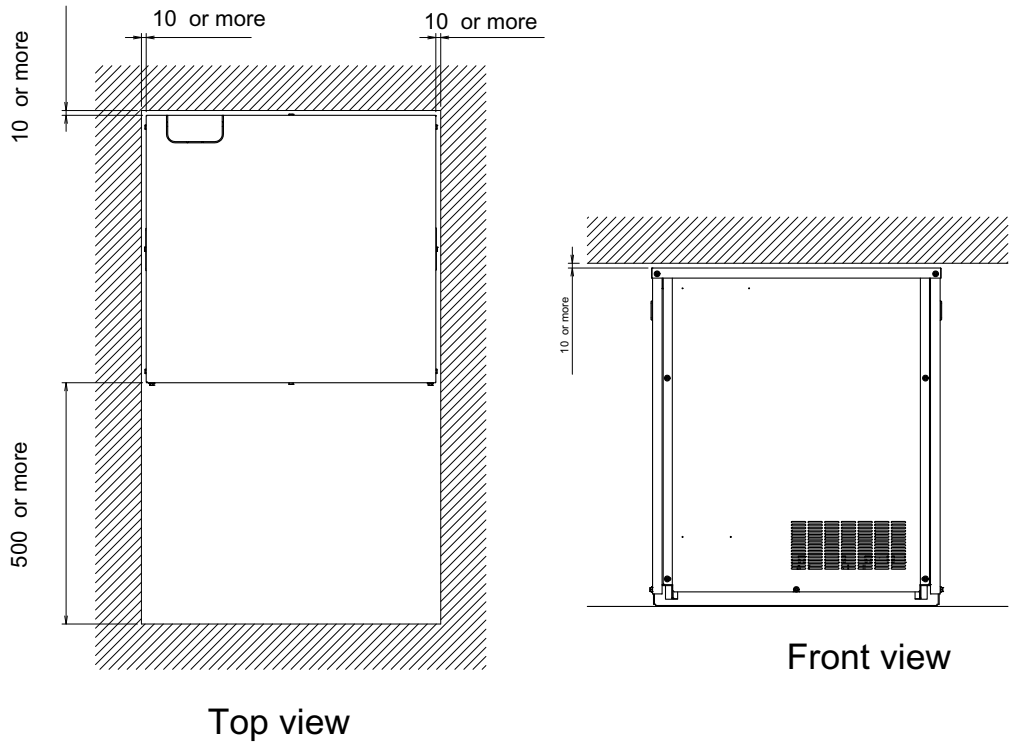
12

RDXYQ-T



3D098834

SB.RKXYQ-T8

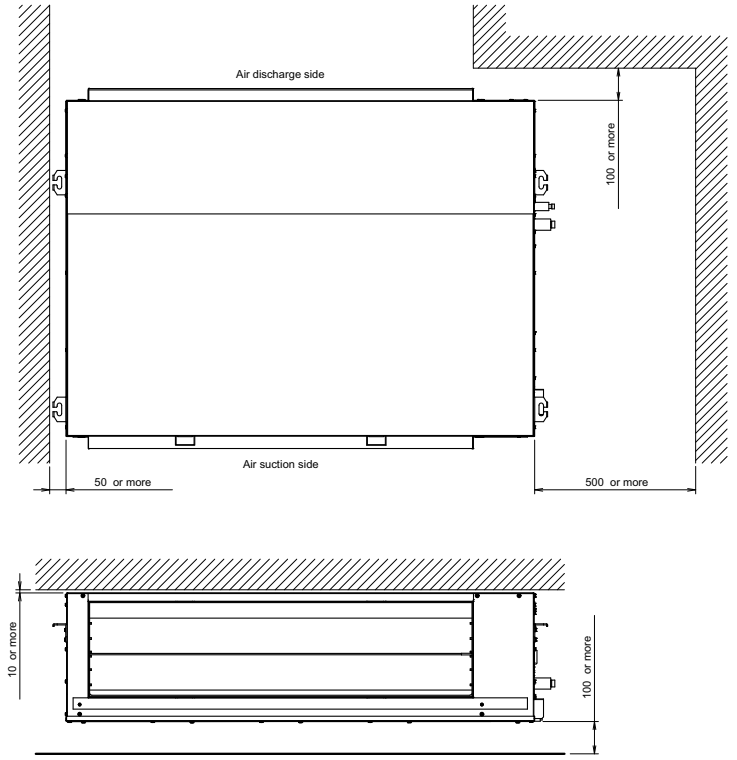


3D098835

12 Installation

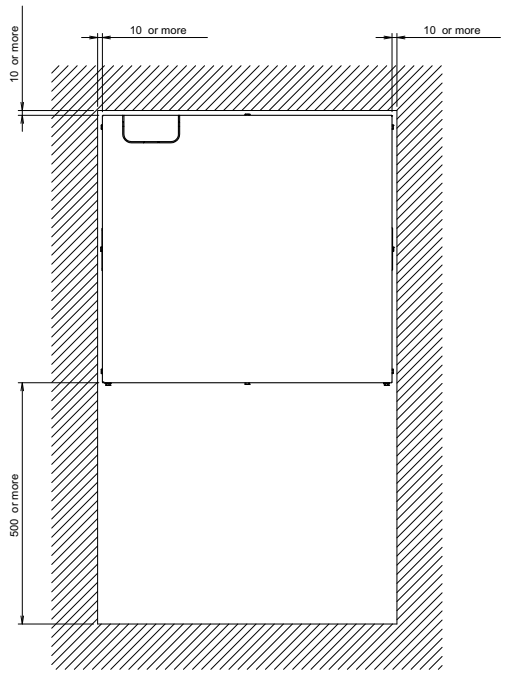
12 - 1 Installation Method

RDXYQ5T

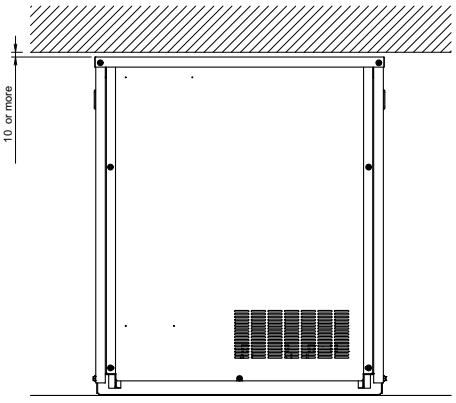


3D098834

SB.RKXYQ-T



Top view



Front view

3D098835

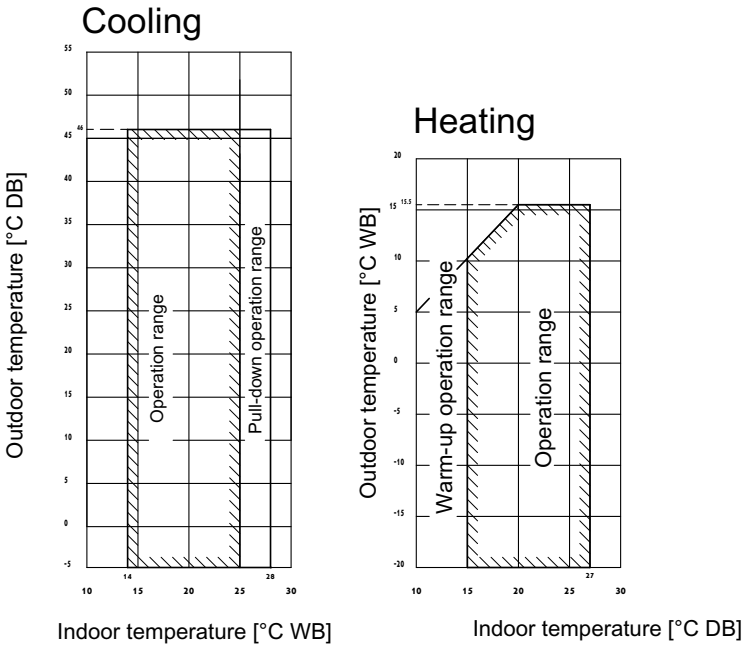
13 Operation range

13 - 1 Operation Range

SB.RKXYQ-T8

Notes

1. These figures assume the following operation conditions
   Equivalent piping length: 10m
   Level difference: 0m
2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
3. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the heat exchanger unit in a location not exposed to wind.
4. If the outdoor temperature can drop below –7°C for more than 24 hours, it is recommended to install drain pan heater kit _____(EKJDPH1RDX)___.

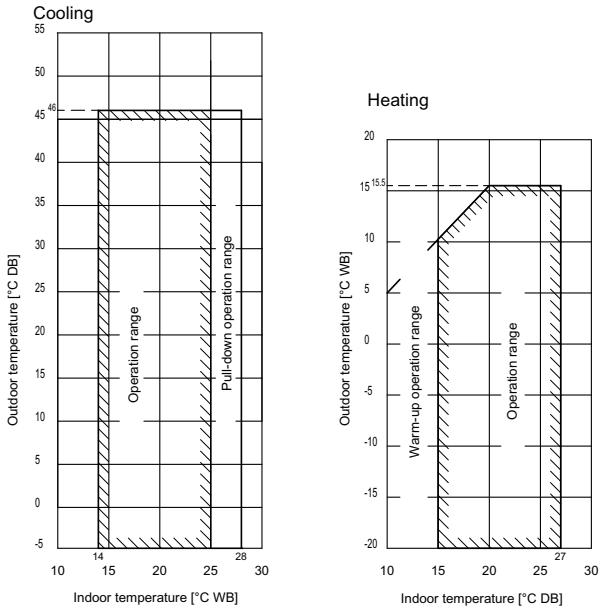


3D098833A

SB.RKXYQ-T

Notes

1. These figures assume the following operation conditions
   Equivalent piping length: 10m
   Level difference: 0m
2. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
3. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the heat exchanger unit in a location not exposed to wind.
4. If the outdoor temperature can drop below –7°C for more than 24 hours, it is recommended to install drain pan heater kit _____(EKJDPH1RDX)___.



3D098833A

14 Appropriate Indoors

14 - 1 Appropriate Indoors

RKXYQ-T
RDXYQ-T

Recommended indoor units for ·RKXYQ*T* + RDXYQ*T*· outdoor units

.. HP	5	8
	4xFXSQ32	4xFXMQ50

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RKXYQ*T* + RDXYQ*T*· outdoor units

Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125
FXZQ15-20-25-32-40-50
FXCQ20-25-32-40-50-63-80-125
FXKQ25-32-40-63
FXDQ15-20-25-32-40-50-63
FXSQ15-20-25-32-40-50-63-80-100-125-140
FXMQ50-63-80-100-125-200-250
FXAQ15-20-25-32-40-50-63
FXHQ32-63-100
FXUQ71-100
FXNQ20-25-32-40-50-63
FXLQ20-25-32-40-50-63

Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200 + EKEQM
VKM50-80-100
CYVS100-150-200-250
CYVM100-150-200-250
CYVL100-150-200-250

3D113978

Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende

EEDEN18 05/18