

# technical data

ERHQ011-016AAW1

Altherma

# Altherma

**R-410A**

# Altherma

In all of us,  
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



Het ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

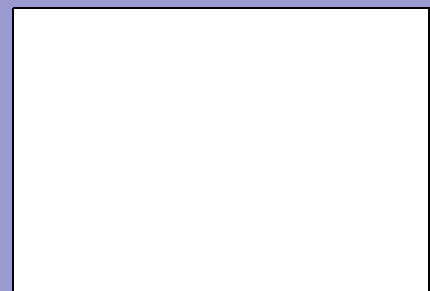


Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory.

"The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V."



## DAIKIN EUROPE N.V.

Naamloze Vennootschap

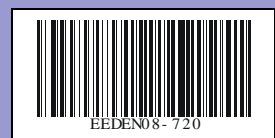
Zandvoordestraat 300

B-8400 Ostend, Belgium

www.daikin.eu

BTW: BE 0412 120 336

RPR Oostende



# technical data

ERHQ011-016AAW1

Altherma

# Altherma

**R-410A**

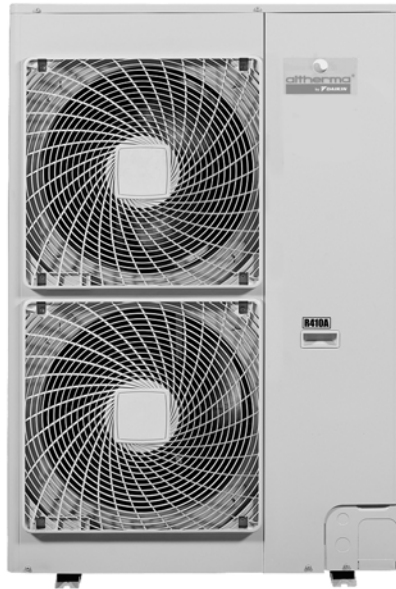
# TABLE OF CONTENTS

## ERHQ011-016AAW1

1	Features .....	5
2	Specifications .....	6
	Nominal Capacity and Nominal Input .....	6
	Technical Specifications .....	6
	Electrical Specifications .....	8
3	Capacity tables .....	9
	Cooling capacity tables .....	9
	Heating capacity tables .....	10
4	Dimensional drawing & centre of gravity .....	11
	Dimensional drawing .....	11
	Centre of gravity .....	12
5	Piping diagram .....	13
6	Wiring diagram .....	14
	Wiring diagram .....	14
	External connection diagram .....	15
7	Sound data .....	16
	Sound pressure spectrum .....	16
	Sound pressure spectrum quiet mode .....	17
8	Installation .....	19
	Service space .....	19
9	Operation range .....	20

# 1 Features

1



## 2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				ERHQ011AAW1	ERHQ014AAW1	ERHQ016AAW1
For combination indoor units + outdoor units	Indoor Units			EKHBH016AB		
Condition 1	Heating capacity	Nominal	kW	11.32	14.50	16.05
	Heating PI	Nominal	kW	2.54	3.33	3.73
	COP	Nominal		4.46	4.35	4.30
Nominal Capacity	Heating capacity	Nominal	kW	10.98	13.57	15.11
	Heating PI	Nominal	kW	3.15	4.12	4.60
	COP	Nominal		3.48	3.29	3.29
For combination indoor units + outdoor units	Indoor Units			EKHBX016AB		
Condition 1	Heating capacity	Nominal	kW	11.32	14.50	16.05
	Cooling capacity	Nominal	kW	15.05	16.06	16.76
	Heating PI	Nominal	kW	2.54	3.33	3.73
	Cooling PI	Nominal	kW	4.44	5.33	6.06
	COP	Nominal		4.46	4.35	4.30
	EER	Nominal		3.39	3.01	2.76
Nominal Capacity	Heating capacity	Nominal	kW	10.98	13.57	15.11
	Cooling capacity	Nominal	kW	11.72	12.55	13.12
	Heating PI	Nominal	kW	3.15	4.12	4.60
	Cooling PI	Nominal	kW	4.22	5.00	5.65
	COP	Nominal		3.48	3.29	3.29
	EER	Nominal		2.78	2.51	2.32
Notes				Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C) - heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)		
				Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C) - heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)		

2

2-2 TECHNICAL SPECIFICATIONS				ERHQ011AAW1	ERHQ014AAW1	ERHQ016AAW1
Casing	Colour			Ivory white		
	Material			Painted galvanised steel plate		
Dimensions	Unit	Height	mm	1,345		
		Width	mm	900	900	900
		Depth	mm	320	320	320
	Packing	Height	mm	1,524		
		Width	mm	980	980	980
		Depth	mm	420	420	420
Weight	Unit		kg	108 (ERHQ*W1)*110 (ERHQ*W18*)		
	Packed Unit		kg	120 (ERHQ*W1)*122 (ERHQ*W18*)		
Packing	Material			EPS		
				Carton		
				Wood		
				PP (Straps)		
	Weight		kg	12	12	12
Heat Exchanger	Dimensions	Length	mm	857	857	857
		Nr of Rows		2	2	2
		Fin Pitch	mm	1.4	1.4	1.4
		Nr of Passes		5	5	5
		Face Area	m <sup>2</sup>	1.131	1.131	1.131
		Nr of Stages		60	60	60
	Tube type			Hi-XSS(8)		
	Fin	Type	WF fin			
Treatment		Anti-corrosion treatment (PE)				
Fan	Type			Propeller		
	Quantity			2	2	2
	Discharge direction			Horizontal		
	Motor	Quantity		2	2	2
		Model		Brushless DC motor		

## 2 Specifications

2-2 TECHNICAL SPECIFICATIONS				ERHQ011AAW1	ERHQ014AAW1	ERHQ016AAW1
Motor	Speed (nominal)	Steps		8	8	8
		Heating	rpm	760	760	760
		Cooling	rpm	780	780	780
Fan	Motor	Output	W	70	70	70
		Drive		Direct drive		
Compressor	Quantity			1	1	1
	Motor	Model		JT1G-VDYR@S		
		Type		Hermetically sealed scroll compressor		
		Motor Output	W	2,200		
		Starting Method		Inverter driven		
		Crankcase Heater	W	33	33	33
Operation Range	Heating	Min	°CWB	-20	-20	-20
		Max	°CWB	35	35	35
	Cooling	Min	°CDB	10	10	10
		Max	°CDB	46	46	46
	Sanitary water	Min	°CDB	-20	-20	-20
		Max	°CDB	43	43	43
Sound Level (nominal)	Heating	Sound Power	dBA	64	64	66
		Sound Pressure	dBA	51	51	52
	Cooling	Sound Power	dBA	64	66	69
		Sound Pressure	dBA	50	52	54
Sound Level (Night quiet)	Heating	Sound Pressure	dBA	42	42	43
	Cooling	Sound Pressure	dBA	45	45	46
Refrigerant	Type		R-410A			
	Charge	kg	2.95	2.95	2.95	
	Control		Expansion valve(electronic type)			
	Nr of Circuits		1	1	1	
Refrigerant Oil	Type		Daphne FVC68D			
	Charged Volume	l	1.0	1.0	1.0	
Piping connections	Liquid (OD)	Quantity		1	1	1
		Type		Flare connection		
		Diameter (OD)	mm	9,52		
	Gas	Quantity		1	1	1
		Type		Flare connection		
		Diameter (OD)	mm	15,9		
	Drain	Quantity		3	3	3
		Type		Hole		
		Diameter (OD)	mm	26	26	26
		Quantity		1	1	1
		Type		Hole		
		Diameter (OD)	mm	18	18	18
	Piping Length	Minimum	m	5	5	5
		Maximum	m	75	75	75
		Equivalent	m	95	95	95
		Chargeless	m	10	10	10
	Additional Refrigerant Charge		kg/m	See installation manual outdoor unit 4PW42025-1		
	Installation height difference	Maximum	m	30	30	30
	Heat Insulation			Both liquid and gas pipes		

## 2 Specifications

2-2 TECHNICAL SPECIFICATIONS		ERHQ011AAW1	ERHQ014AAW1	ERHQ016AAW1
Defrost Method		Pressure equalising		
Defrost Control		Sensor for outdoor heat exchanger temperature		
Capacity Control Method		Inverter controlled		
Safety Devices		High pressure switch		
		Fan motor thermal protector		
		Fuse		
Standard Accessories	Item	Tie-wraps		
	Quantity	2	2	2
	Item	Installation manual		
Quantity	1	1	1	
Notes		The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value depending on the distance and acoustic environment. Refer to sound spectrum drawing for more information.		
		Down to 3m with recharging of the outdoor unit. Refer to the installation manual of the outdoor unit.		
		Conditions: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)		
		Conditions: Ta 35°C - LWE 7°C (DT = 5°C)		

2

2-3 ELECTRICAL SPECIFICATIONS				ERHQ011AAW1	ERHQ014AAW1	ERHQ016AAW1
Power Supply	Name		W1			
	Phase		3N-			
	Frequency	Hz	50	50	50	
	Voltage	V	400	400	400	
	Voltage range	Minimum	V	-10%		
Maximum		V	+10%			
Current	Nominal running current (RLA)	Heating (A)	5.8	5.8	5.8	
		Maximum running Current	Heating	13.5 (ERHQ*W1*) / 14 (ERHQ*W18*)		
		Cooling	13.5 (ERHQ*W1*) / 14 (ERHQ*W18*)			
	Recommended fuses	A	20	20	20	
Wiring connections	For Power Supply	Remark	See installation manual outdoor unit 4PW42025-1			
	For connection with indoor	Remark	See installation manual outdoor unit 4PW42025-1			
Power Supply Intake		Outdoor unit only				
Notes		Conditions: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)				



### 3 Capacity tables

#### 3 - 1 Cooling capacity tables

ERHQ011-016AAW1

**Maximum Cooling Capacity**

Model	Tamb	20		25		30		35		40		45	
	LWE [°C]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]
ERHQ11	7	12,99	3,17	12,88	3,48	12,44	3,83	11,72	4,22	10,74	4,65	9,54	5,13
	10	13,79	3,20	13,67	3,52	13,20	3,88	12,44	4,28	11,40	4,72	10,14	5,21
	13	15,16	3,24	15,02	3,56	14,51	3,93	13,67	4,34	12,54	4,79	11,00	5,45
	15	16,10	3,26	15,95	3,59	15,41	3,96	14,52	4,38	13,33	4,83	11,40	5,32
	18	17,77	3,29	17,18	3,63	16,26	4,02	15,05	4,44	13,61	4,90	11,54	4,91
	22	19,82	3,34	19,17	3,69	18,16	4,09	16,83	4,52	15,23	4,99	12,10	4,38
ERHQ14	7	13,92	3,79	13,81	4,14	13,34	4,54	12,55	5,00	11,13	4,79	9,85	5,28
	10	14,98	3,85	14,85	4,21	14,34	4,62	13,49	5,09	11,97	4,87	10,61	5,37
	13	16,45	3,92	16,30	4,29	15,74	4,70	14,81	5,18	13,15	4,96	11,00	5,45
	15	17,46	3,96	17,30	4,34	16,71	4,76	15,73	5,24	13,97	5,02	11,40	5,32
	18	19,00	4,03	18,36	4,41	17,37	4,85	16,06	5,33	14,05	5,10	11,54	4,91
	22	21,16	4,12	20,45	4,52	19,36	4,97	17,93	5,46	15,71	5,22	12,10	4,38
ERHQ16	7	14,55	4,30	14,46	4,70	13,98	5,15	13,12	5,65	11,59	5,39	9,85	5,28
	10	15,67	4,39	15,56	4,80	15,02	5,25	14,09	5,76	12,45	5,49	10,61	5,37
	13	17,22	4,48	17,08	4,90	16,48	5,36	15,47	5,87	13,67	5,59	11,00	5,45
	15	18,29	4,54	18,13	4,97	17,49	5,43	16,42	5,95	14,52	5,66	11,40	5,32
	18	19,91	4,64	19,23	5,07	18,17	5,54	16,76	6,06	14,60	5,76	11,54	4,91
	22	22,18	4,77	21,42	5,21	20,25	5,70	18,69	6,22	16,31	5,90	12,10	4,38

3TW57912-1

**SYMBOLS**

- CC : Cooling capacity at maximum operating frequency, measured acc. Eurovent 6/C/003-2006 (kW)
- HC : Heating capacity at maximum operating frequency, measured acc. Eurovent 6/C/003-2006 (kW)
- PI : Power input (kW), measured acc. Eurovent 6/C/003-2006 (kW)
- LWE : Leaving Water Evaporator temperature (°C)
- LWC : Leaving Water Condensor temperature (°C)
- Tamb : Ambient temperature (°C) RH=85%

**NOTES**

- 1 **Cooling capacity**  
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3–8°C
- 2 **Heating capacity**  
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3–8°C
- 3 **Power input**  
Power input is total of indoor and outdoor unit, except the circulation pump; according to Eurovent rating standard 6/C/003-2006.  
Pump power input to be added = 90 W (according EN14511).

### 3 Capacity tables

#### 3 - 2 Heating capacity tables

##### ERHQ011-016AAW1

Maximum Heating Capacity (Peak values)

Model	LWC [°C]	30		35		40		45		50		55	
	Tamb	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]	CC [kW]	PI [kW]
ERHQ11	-20	5,92	2,24	5,57	2,44	5,45	2,69	5,31	2,98				
	-15	6,70	2,28	6,30	2,49	6,15	2,74	5,98	3,04	5,74	3,38		
	-7	8,22	2,31	7,74	2,54	7,59	2,80	7,39	3,11	7,11	3,46	6,60	3,85
	-2	9,38	2,32	8,86	2,55	8,70	2,82	8,50	3,14	8,19	3,49	7,63	3,89
	2	10,43	2,31	9,88	2,55	9,72	2,83	9,52	3,15	9,20	3,51	8,60	3,91
	7	11,92	2,29	11,32	2,54	11,18	2,83	10,98	3,15	10,65	3,52	9,99	3,93
	12	12,93	2,22	12,31	2,47	12,20	2,76	12,02	3,09	11,69	3,46	11,01	3,87
	15	13,99	2,20	13,34	2,45	13,24	2,74	13,07	3,08	12,74	3,45	12,02	3,86
20	15,90	2,14	15,20	2,40	15,13	2,70	14,98	3,04	14,22	3,42	13,46	3,84	
ERHQ14	-20	7,69	2,89	7,46	3,15	7,25	3,45	6,99	3,80				
	-15	8,59	2,95	8,28	3,22	7,99	3,53	7,87	3,89	7,83	4,30		
	-7	10,43	3,02	10,02	3,30	9,61	3,63	9,40	4,01	9,27	4,43	8,87	4,89
	-2	11,87	3,05	11,39	3,34	10,91	3,68	10,65	4,06	10,49	4,49	10,02	4,96
	2	13,20	3,06	12,66	3,36	12,13	3,70	11,84	4,09	11,65	4,52	11,12	5,01
	7	15,11	3,07	14,50	3,33	13,90	3,72	13,57	4,12	13,35	4,56	12,73	5,05
	12	15,99	2,97	15,36	3,27	14,74	3,62	14,40	4,01	14,18	4,44	13,54	4,92
	15	17,33	2,96	16,66	3,26	16,00	3,61	15,64	4,01	15,41	4,45	14,72	4,93
20	19,77	2,93	19,04	3,24	18,30	3,59	17,92	4,00	17,17	4,44	16,41	4,93	
ERHQ16	-20	8,50	3,21	8,36	3,50	8,24	3,84	8,12	4,22				
	-15	9,46	3,28	9,24	3,58	9,02	3,93	8,94	4,32	8,73	4,77		
	-7	11,47	3,37	11,11	3,68	10,76	4,04	10,57	4,45	10,21	4,92	9,86	5,43
	-2	13,05	3,41	12,62	3,73	12,18	4,10	11,92	4,52	11,49	4,99	11,05	5,51
	2	14,52	3,44	14,02	3,76	13,52	4,13	13,22	4,56	12,71	5,04	12,20	5,56
	7	16,63	3,46	16,05	3,73	15,47	4,17	15,11	4,60	14,51	5,08	13,92	5,62
	12	17,34	3,36	16,74	3,69	16,13	4,06	15,76	4,49	15,13	4,96	14,51	5,49
	15	18,81	3,36	18,16	3,69	17,51	4,07	17,10	4,49	16,43	4,97	15,75	5,50
20	21,49	3,34	20,77	3,68	20,04	4,06	19,59	4,50	18,83	4,98	18,07	5,52	

Maximum Heating Capacity (integrated values\*)

Model	LWC	30		35		40		45		50		55	
	Tamb	HC	PI	HC	PI	HC	PI	HC	PI	HC	PI	HC	PI
ERHQ11	-20	5,02	2,19	4,72	2,39	4,62	2,63	4,49	2,91				
	-15	5,67	2,23	5,33	2,44	5,21	2,69	5,07	2,98	4,86	3,30		
	-7	6,96	2,26	6,56	2,49	6,43	2,75	6,26	3,05	6,02	3,39	5,59	3,77
	-2	7,78	2,22	7,35	2,45	7,22	2,71	7,06	3,01	6,80	3,35	6,33	3,73
	2	8,66	2,22	8,20	2,45	8,07	2,72	7,90	3,02	7,64	3,37	7,14	3,75
	7	11,92	2,29	11,32	2,54	11,18	2,83	10,98	3,15	10,65	3,52	9,99	3,93
	12	12,93	2,22	12,31	2,47	12,20	2,76	12,02	3,09	11,69	3,46	11,01	3,87
	15	13,99	2,20	13,34	2,45	13,24	2,74	13,07	3,08	12,74	3,45	12,02	3,86
20	15,90	2,14	15,20	2,40	15,13	2,70	14,98	3,04	14,22	3,42	13,46	3,84	
ERHQ14	-20	6,54	2,80	6,35	3,05	6,17	3,34	6,04	3,68				
	-15	7,30	2,86	7,05	3,12	6,80	3,42	6,69	3,77	6,66	4,16		
	-7	8,87	2,93	8,52	3,20	8,17	3,52	7,99	3,88	7,89	4,29	7,55	4,74
	-2	9,44	2,76	9,05	3,02	8,68	3,33	8,47	3,67	8,34	4,06	7,96	4,49
	2	10,50	2,77	10,07	3,04	9,65	3,35	9,41	3,70	9,26	4,09	8,84	4,53
	7	15,11	3,07	14,50	3,33	13,90	3,72	13,57	4,12	13,35	4,56	12,73	5,05
	12	15,99	2,97	15,36	3,27	14,74	3,62	14,40	4,01	14,18	4,44	13,54	4,92
	15	17,33	2,96	16,66	3,26	16,00	3,61	15,64	4,01	15,41	4,45	14,72	4,93
20	19,77	2,93	19,04	3,24	18,30	3,59	17,92	4,00	17,17	4,44	16,41	4,93	
ERHQ16	-20	7,02	3,12	6,91	3,39	6,81	3,72	6,73	4,10				
	-15	7,82	3,19	7,63	3,47	7,45	3,81	7,39	4,20	7,21	4,63		
	-7	9,48	3,27	9,18	3,57	8,89	3,92	8,73	4,32	8,44	4,77	8,14	5,27
	-2	9,99	3,04	9,65	3,32	9,32	3,65	9,12	4,02	8,79	4,44	8,45	4,90
	2	11,11	3,06	10,73	3,35	10,34	3,68	10,11	4,06	9,72	4,48	9,33	4,95
	7	16,63	3,46	16,05	3,73	15,47	4,17	15,11	4,60	14,51	5,08	13,92	5,62
	12	17,34	3,36	16,74	3,69	16,13	4,06	15,76	4,49	15,13	4,96	14,51	5,49
	15	18,81	3,36	18,16	3,69	17,51	4,07	17,10	4,49	16,43	4,97	15,75	5,50
20	21,49	3,34	20,77	3,68	20,04	4,06	19,59	4,50	18,83	4,98	18,07	5,52	

3TW57912-1

#### SYMBOLS

- CC : Cooling capacity at maximum operating frequency, measured acc. Eurovent 6/C/003-2006 (kW)
- HC : Heating capacity at maximum operating frequency, measured acc. Eurovent 6/C/003-2006 (kW)
- PI : Power input (kW), measured acc. Eurovent 6/C/003-2006 (kW)
- LWE : Leaving Water Evaporator temperature (°C)
- LWC : Leaving Water Condensator temperature (°C)
- Tamb : Ambient temperature (°C) RH=85%

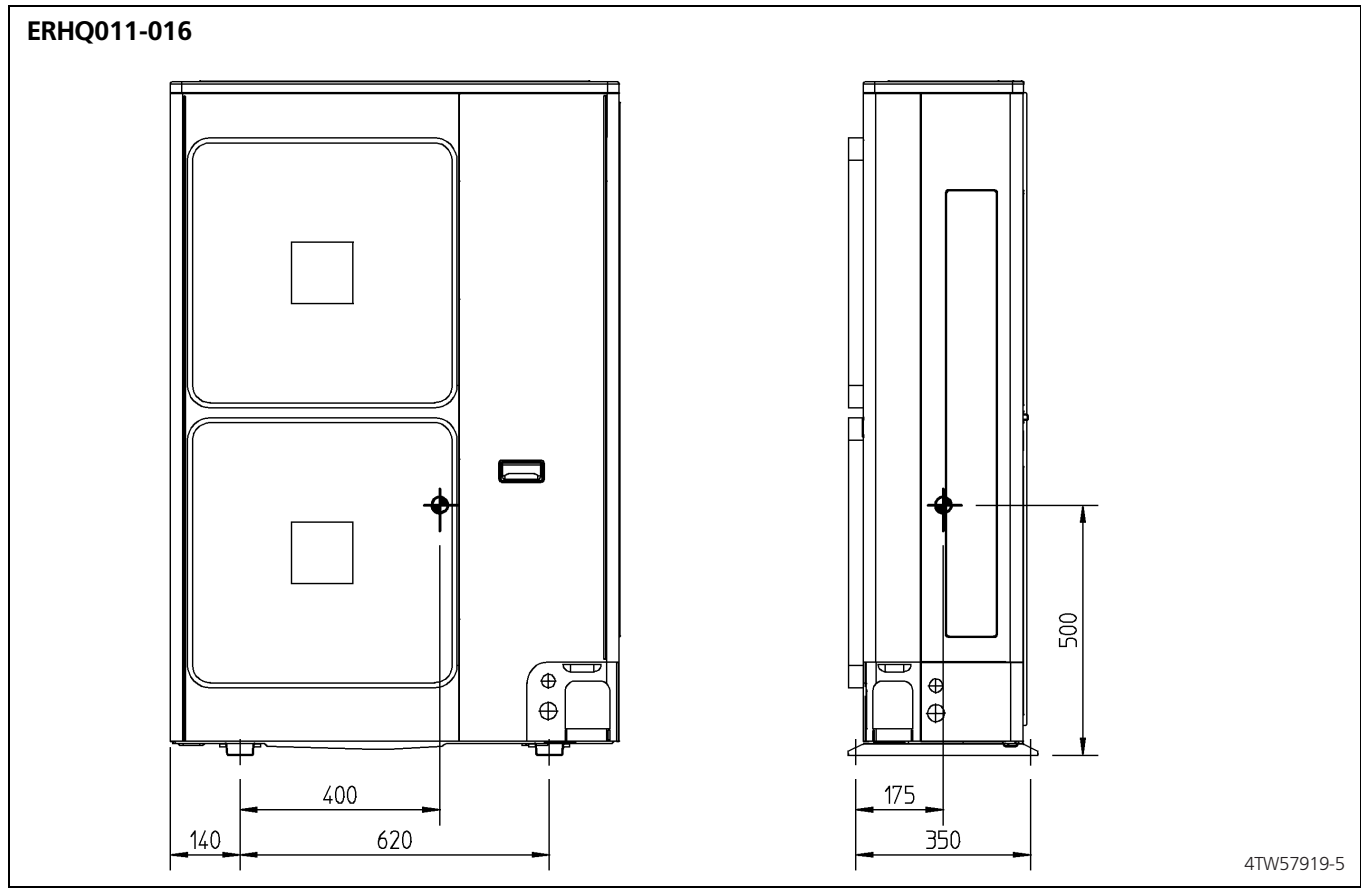
#### NOTES

- 1 **Cooling capacity**  
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3-8°C
- 2 **Heating capacity**  
Capacity is according to Eurovent rating standard 6/C/003-2006 and valid for chilled water range Dt = 3-8°C
- 3 **Power input**  
Power input is total of indoor and outdoor unit, except the circulation pump; according to Eurovent rating standard 6/C/003-2006.  
Pump power input to be added = 90 W (according EN14511).



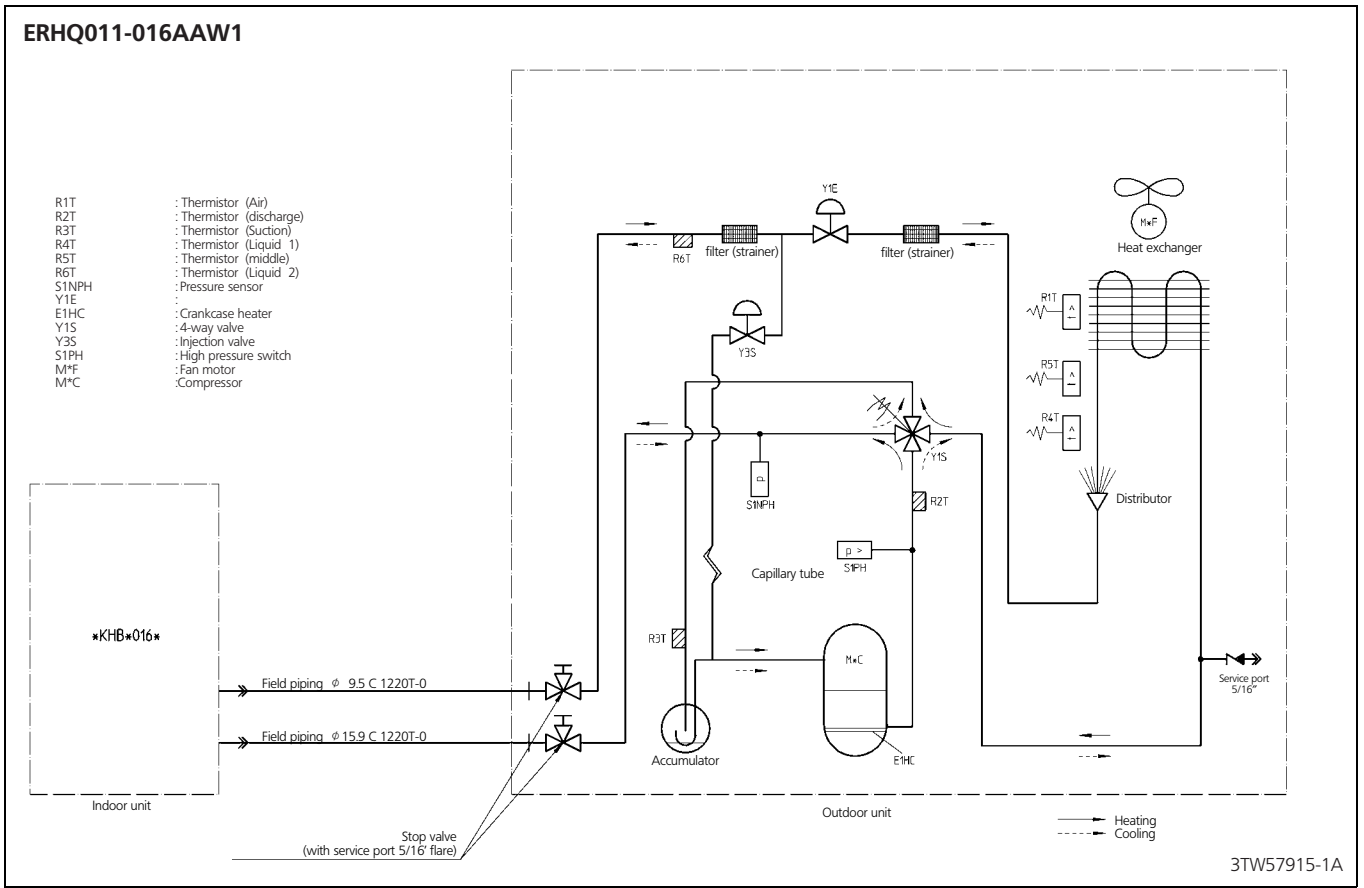
## 4 Dimensional drawing & centre of gravity

### 4 - 2 Centre of gravity



# 5 Piping diagram

5





# 6 Wiring diagram

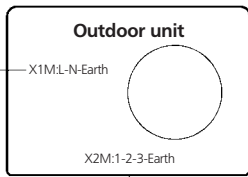
## 6 - 2 External connection diagram

EKHB-A

**Power supply**

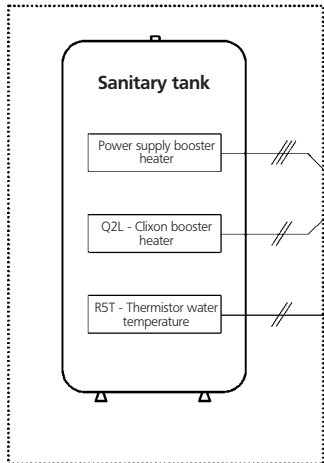
Unit power supply: 230V + earth  
 Backup heater power supply (3/6/9kW): 400V or 230V + earth  
 Optional power supply  
 Booster heater power supply (3kW): 400V or 230V + earth

**Standard parts**

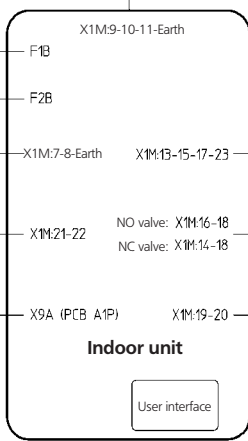


For more details please check unit wiring diagram

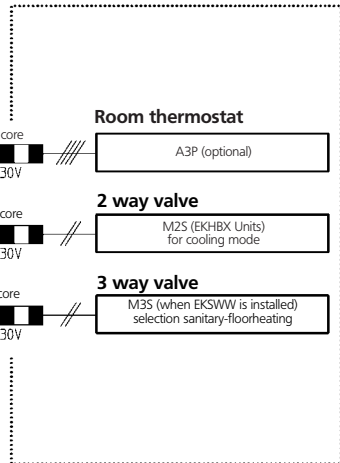
**Optional parts**



3 core  
 3 or 4 core  
 5 core 5Gx2.5  
 230V or 400V  
 2 core  
 Signal  
 Thermistor cable  
 Note: min. distance to power cable = 3cm



**Field supply**

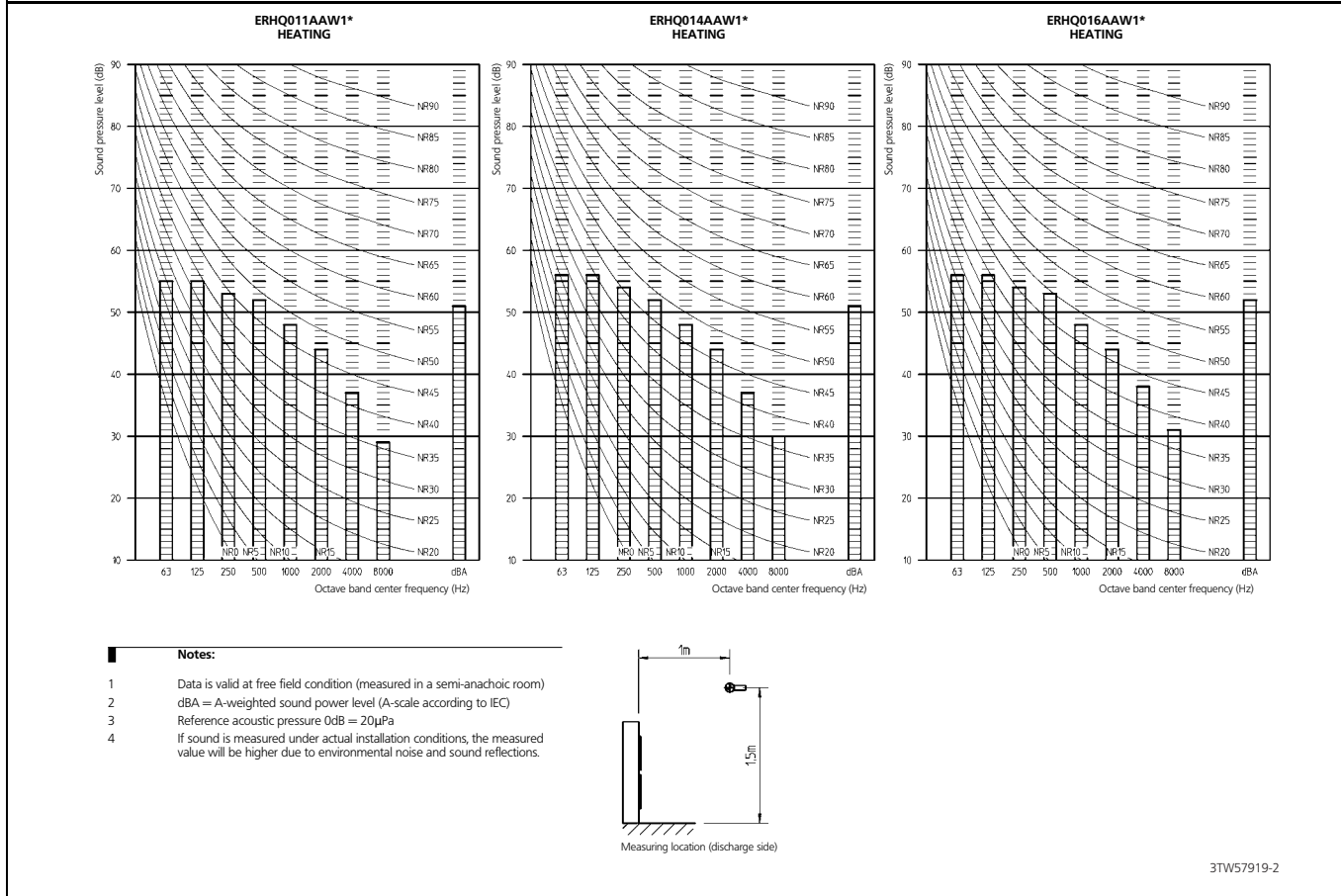
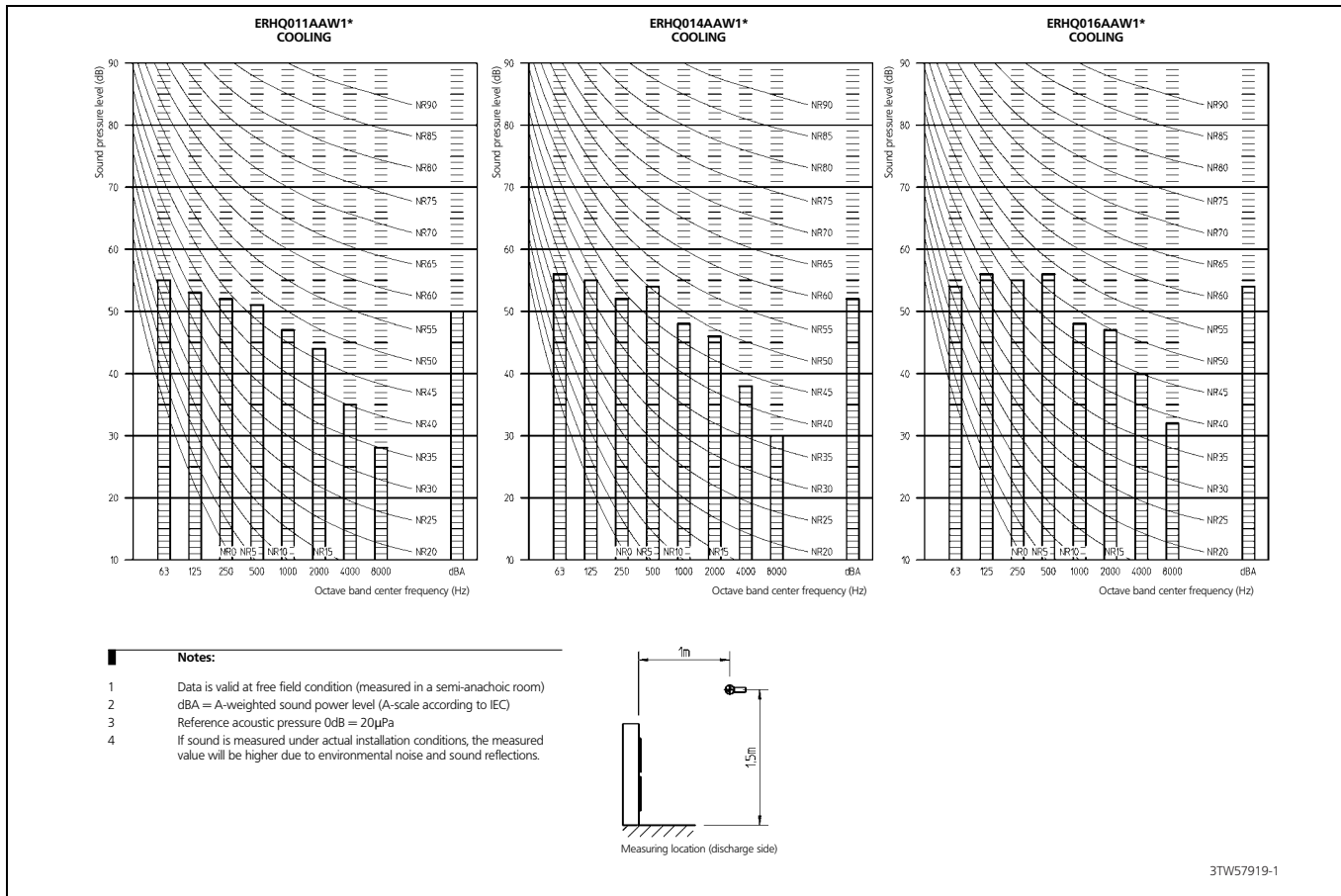


6

3TW56719-6

# 7 Sound data

## 7 - 1 Sound pressure spectrum

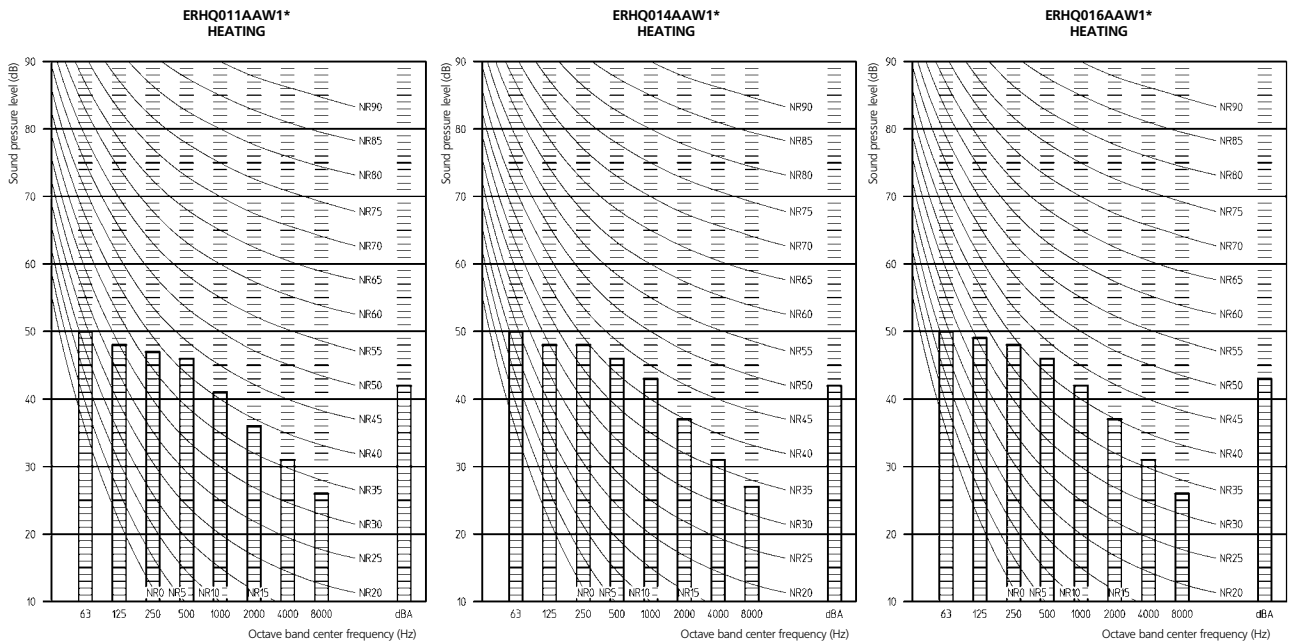




# 7 Sound data

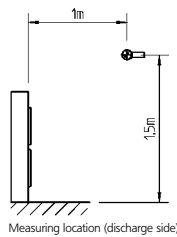
## 7 - 2 Sound pressure spectrum quiet mode

7



**Notes:**

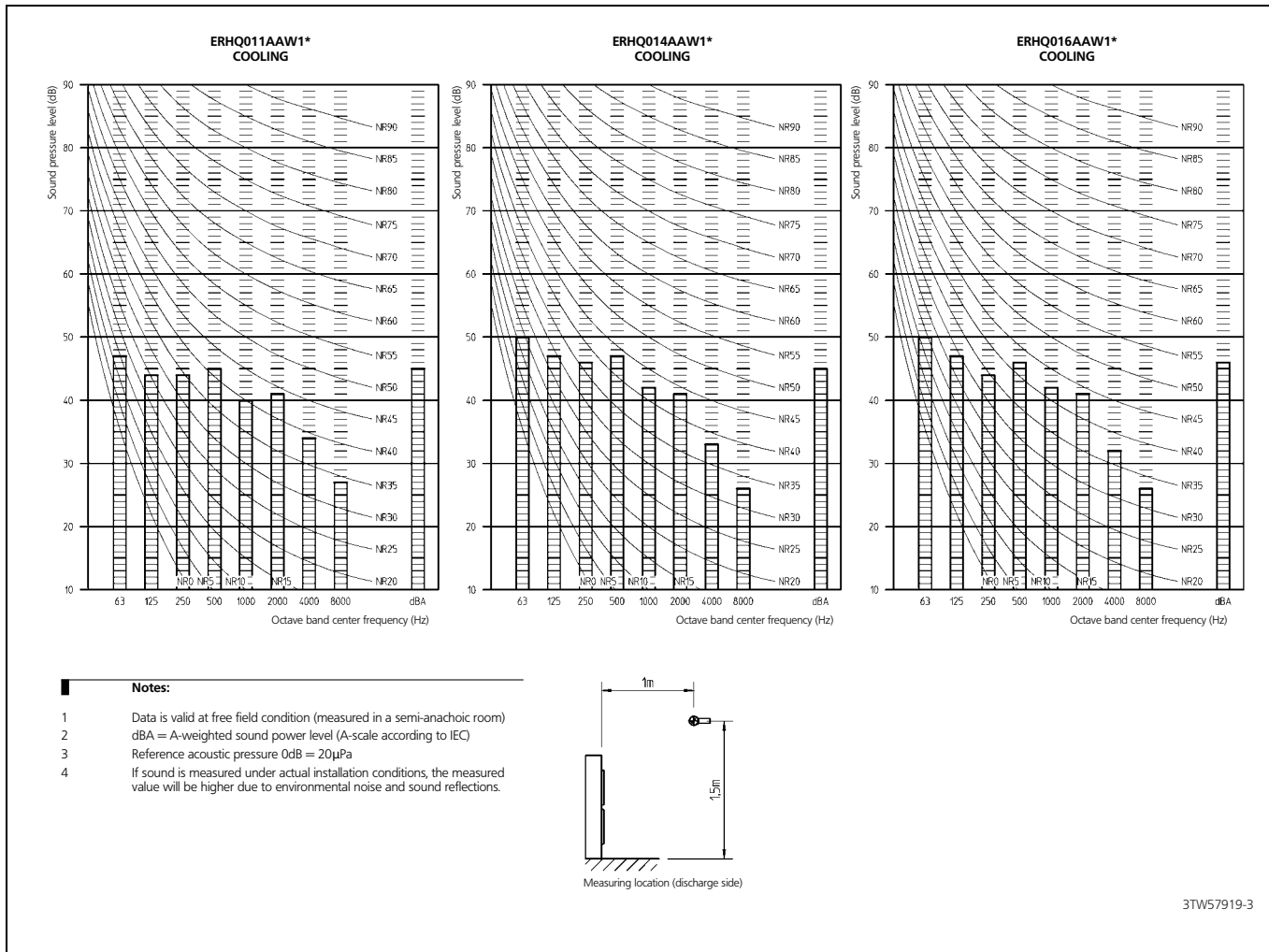
- 1 Data is valid at free field condition (measured in a semi-anechoic room)
- 2 dBA = A-weighted sound power level (A-scale according to IEC)
- 3 Reference acoustic pressure 0dB = 20μPa
- 4 If sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



3TW57919-4

# 7 Sound data

## 7 - 2 Sound pressure spectrum quiet mode



# 8 Installation

## 8 - 1 Service space

ERHQ011-016

### A. Non stacked installation

Legend Unit: mm

	↖	↗	↘	↙		A	B1	B2	C	D1	D2	E	L1/2
	✓					≥50(100)							
	✓		✓	✓		≥100	≥100		≥100				
	✓					≥100					≤500	≥1000	
	✓	✓	✓	✓		≥150	≥150		≥150		≤500	≥1000	
		✓									≥500		
			✓								≥500		
	✓	✓				L1<L2			≤500	≥500		≥1000	
				✓		L2<L1				≥500			
						L1<L2	L1≤H			≥150(250)	≤500		≥750
						L1<L2	L1≤H			≥150(250)	≤500		≥1000
	✓	✓				L2<L1	L2≤H			≥500(1000)		≥500	≥1000
						L2<L1	L2≤H			≥100(200)		≥1000	0<L2≤1/2H
						L2<L1	L2≤H			≥100(200)		≥1000	1/2H<L2≤H
						L1<L2	L1≤H			≥200	≥200(300)		≥1000
						L1<L2	L1≤H			≥200	≥200(300)		≥1000
						L1<L2	L1≤H				≤500	≥1000	
						L1<L2	L1≤H				≥1000	≥1000	
						L1<L2	L1≤H				≥1000	≥1000	
						L2<L1	L2≤H			≥200(300)		≥1000	0<L2≤1/2H
						L2<L1	L2≤H			≥150(250)		≥1000	1/2H<L2≤H
						L2<L1	L2≤H			≥200(300)		≥1000	1/2H<L2≤H
						L1<L2	L1≤H			≥200(300)	≤500		≥1000
						L1<L2	L1≤H			≥200(300)	≤500		≥1000
						L2<L1	L2≤H			≥1000(1500)		≥1000	0<L2≤1/2H
						L2<L1	L2≤H			≥200(300)		≥1000	1/2H<L2≤H

- ↖ Suction side obstacle
- ↗ Discharge side obstacle
- ↘ Left side obstacle
- ↙ Right side obstacle
- ↕ Top side obstacle
- ✓ Obstacle is present

1 In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

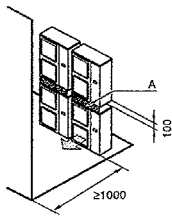
2 In these cases, only 2 units can be installed.

This situation is not allowed.

Figures between ( ) indicate the dimensions only for the 100-125-140 class models.

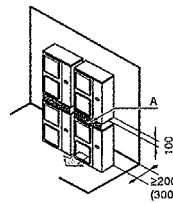
### B. Stacked installation

#### 1. Obstacles exist in front of the outlet side



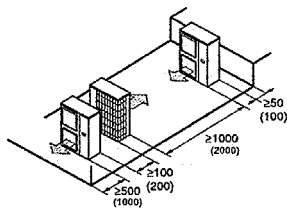
Do not stack more than one unit.  
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.  
Get the portion A sealed so that air from the outlet does not bypass.

#### 2. Obstacles exist in front of the air inlet

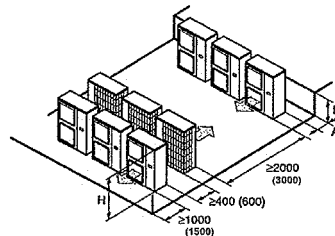


### C. Multiple-row installation

#### 1. Installation of one unit per row



#### 2. Installing multiple units (2 units or more) in lateral connection per row



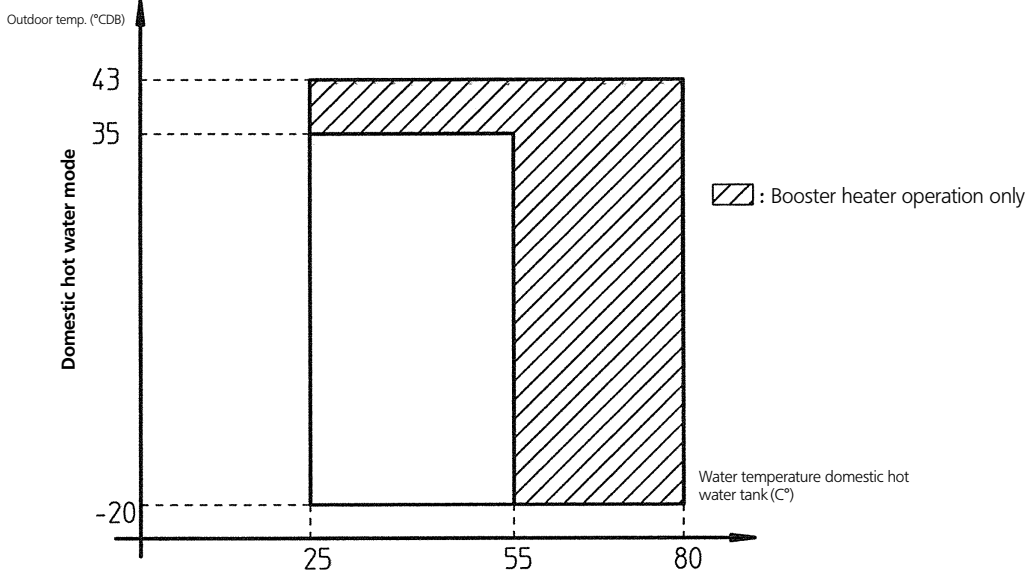
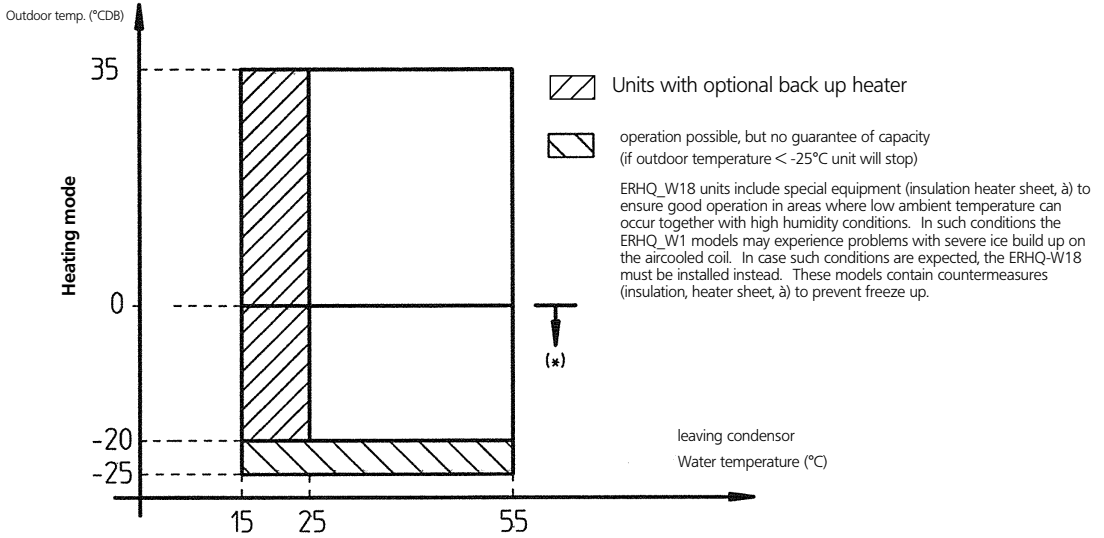
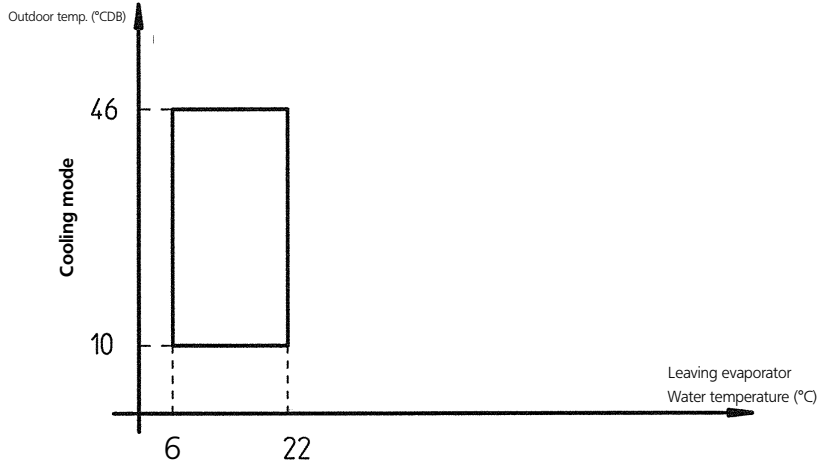
Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW26739-4

# 9 Operation range

ERHQ011-016AAW1



4TW57913-1A

