

Condensing units for air handling applications (pair) Technical data book ERQ-AW1



ERQ125A7W1B
ERQ200A7W1B
ERQ250A7W1B

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ERQ-AW1

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1 Features

1 - 1 ERQ-AW1

- › Benefit from the high efficiency and fast response to changing loads of ERQ condensing units
- › Inverter controlled outdoor unit
- › Predefined combinations with Daikin Modular air handling unit offer ready to use 'fresh air packages'
- › R-410A heat pump



2 Specifications

1 - 1 ERQ-AW1

Technical specifications					ERQ125AW1		ERQ200AW1		ERQ250AW1		
Cooling capacity	Nom.			kW	14.0 (1)		22.4 (1)		28.0 (1)		
Heating capacity	Nom.			kW	16.0 (2)		25.0 (2)		31.5 (2)		
Capacity range				HP	5		8		10		
Power input	Cooling	Nom.		kW	3.52 (1)		5.22 (1)		7.42 (1)		
	Heating	Nom.		kW	4.00 (2)		5.56 (2)		7.70 (2)		
EER					3.98 (1)		4.29 (1)		3.77 (1)		
COP					4.00 (2)		4.50 (2)		4.09 (2)		
PED		Category			Category II						
Dimensions	Unit	Height			mm	1,680					
		Width			mm	635		930			
		Depth			mm	765					
	Packed unit	Height			mm	1,855					
		Width			mm	704		995			
		Depth			mm	860					
Weight	Unit			kg	159		187		240		
	Packed unit			kg	182		217		273		
Packing	Material				Carton						
	Weight				kg		3.8		4.02		
Packing 2	Material				Wood						
	Weight				kg		19.15		20.85		
Packing 3	Material				Plastic						
	Weight				kg		0.215		0.265		
Casing	Colour				Daikin White						
	Material				Painted galvanized steel plate						
Heat exchanger	Length			mm	1,483		1,778				
	Rows	Quantity			54						
	Fin pitch			mm	2						
	Passes	Quantity			8		18				
	Face area			m²	1.762		2.112				
	Stages	Quantity			2						
	Tube type				ø8 Hi-XSS						
	Fin	Type			Non-symmetric waffle louvre						
		Treatment			Hydrophilic and corrosion resistant						
	Fan	Type				Propeller fan					
Discharge direction				Vertical							
Quantity				1							
Air flow rate		Cooling	Nom.	m³/min	95		171		185		
		Heating	Nom.	m³/min	95		171		185		
External static pressure		Max.		Pa	78						
Fan motor	Quantity				1						
	Model				Brushless DC motor						
	Output				W		350		750		
Compressor	Quantity				1				2		
	Model				Inverter						
	Type				Hermetically sealed scroll compressor						
	Speed			rpm	6,300		7,980		6,300		
	Output			W	2,800		3,800		1,200		
	Crankcase heater				W		33				
Compressor 2	Model				-				ON - OFF		
	Type				-				Hermetically sealed scroll compressor		
	Speed				rpm		-		2,900		
	Output				W		-		4,500		
	Crankcase heater				W		-		33		
	Operation range	Cooling	Min.			°CDB	-5				
Max.					°CDB	43					
Heating		Min.			°CWB	-20					
		Max.			°CWB	15					
On coil temperature		Heating	Min.			°CDB	10				
		Cooling	Max.			°CDB	35				
Sound power level	Nom.			dB(A)	72		78				
Sound pressure level	Nom.			dB(A)	54		57		58		
Refrigerant	Type				R-410A						
	Charge				kg		6.2		7.7		
	Charge				TCO2Eq		12.9		16.1		
	GWP						2,087.5		17.5		
	Control				Electronic expansion valve						
	Circuits		Quantity		1						
Refrigerant oil	Type				Synthetic (ether) oil						
	Charged volume				l		1.7		2.1		
Defrost control					Sensor for outdoor heat exchanger temperature						

2 Specifications

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Technical specifications					ERQ125AW1		ERQ200AW1		ERQ250AW1	
Defrost method					Reversed cycle					
Piping connections		Liquid	Type		Braze connection					
			OD	mm	9.52					
		Gas	Type		Braze connection					
				OD	mm	15.9		19.1		22.2
		Piping length	OU - IU	Max.	m	55				
Heat insulation					Both liquid and gas pipes					
Capacity control		Method			Inverter controlled					
		Cooling	Max.	%	100					
Safety devices		Item	01		High pressure switch					
			02		Fan motor driver overload protector					
			03		Overcurrent relay					
			04		Inverter overload protector					
			05		PC board fuse					

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Connection pipes; Quantity: 4;

Electrical specifications				ERQ125AW1	ERQ200AW1	ERQ250AW1
Power supply	Name			W1		
	Phase			3N~		
	Frequency Hz			50		
	Voltage V			400		
	Voltage range	Min.	%	-10		
		Max.	%	10		
Power supply intake				Both indoor and outdoor unit		
Current	Nominal running current (RLA)	Cooling	A	5.1	7.5	11.3
		Heating	A	5.8	8.2	11.1
	Starting current	Cooling	A	-		74 (1)
	Zmax	Text	Ω	-	0.27	
	Minimum circuit amps (MCA)		A	11.9	18.5	21.6
	Maximum fuse amps (MFA)		A	16	25	
	Total overcurrent amps (TOCA)		A	15.6	16.5	31.5
	Full load amps (FLA)	Fan motor	A	0.4	0.7	0.9
	Minimum Ssc value		kVa	-	910	838
Wiring connections	For power supply	Quantity	5			
		Remark	Earth wire included			
	For connection with indoor	Quantity	2			
		Remark	F1,F2			

(1)MSC means the maximum current during start up of the compressor |

(2)Select wire size based on the value of MCA |

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m |

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

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. |

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

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

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

TOCA means the total value of each OC set. |

Contains fluorinated greenhouse gases |

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

FLA means the full load amps of the fan motor. |

In accordance with EN/IEC 61000-3-11, respectively 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 Zsys ≤

Zmax, respectively Ssc ≥ minimum Ssc value. |

EN/IEC 61000-3-11: European/international technical standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with rated ≤ 75A |

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 |

Short-circuit power |

system impedance |

Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m

3 Options

3 - 1 Options

ERQ-AW1

N°	Item	ERQ125A7W1B	ERQ200A7W1B ERQ250A7W1B
1	Cool/heat selector	KRC19-26A6	
2	One option per module is required	KJB111A	
3	Central drain pan kit	KWC26B160	KWC26B280

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Notes:

1. All options are kits.
2. Only 1 option per installation is needed.
3. One option per module is required
4. The option should be installed inside the outdoor unit.

4 Combination table

4 - 1 Combination Table

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Combination table

Outdoor unit		Control box		Expansion valve kit						
		EKEQDCBV3	EKEQFCBV3	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
1 ph	ERQ100	P	P	P	P	P	P	-	-	-
	ERQ125	P	P	P	P	P	P	P	-	-
	ERQ140	P	P	-	P	P	P	P	-	-
3 ph	ERQ125	P	P	P	P	P	P	P	-	-
	ERQ200	P	P	-	-	P	P	P	P	P
	ERQ250	P	P	-	-	-	P	P	P	P

Heat pump

P: Pair: Combination depending on AHU heat exchanger volume and capacity

EKEXV Class	Allowed heat exchanger volume (dm ³)		Allowed heat exchanger capacity (kW)	
	Minimum	Maximum	Minimum	Maximum
63	1.66	2.08	6.3	7.8
80	2.09	2.64	7.9	9.9
100	2.65	3.3	10	12.3
125	3.31	4.12	12.4	15.4
140	4.13	4.62	15.5	17.6
200	4.63	6.6	17.7	24.6
250	6.61	8.25	24.7	30.8

 Saturated suction temperature (SST) = 6°C, Superheat (SH) = 5K
 Air temperature = 27°CDB/19°CWB

If conflicting result occurs, capacity selection has priority over volume.

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5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ125AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB															
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB			
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 14.00 kW (125)	10	9.45	1.21	11.3	1.47	13.1	1.74	14.0	1.88	14.9	2.02	16.7	2.31	17.7	2.39		
	12	9.45	1.23	11.3	1.50	13.1	1.78	14.0	1.92	14.9	2.06	16.7	2.36	17.5	2.38		
	14	9.45	1.26	11.3	1.53	13.1	1.81	14.0	1.95	14.9	2.10	16.7	2.40	17.2	2.37		
	16	9.45	1.28	11.3	1.55	13.1	1.84	14.0	1.99	14.9	2.14	16.7	2.43	17.0	2.41		
	18	9.45	1.30	11.3	1.58	13.1	1.88	14.0	2.03	14.9	2.19	16.4	2.51	16.8	2.53		
	20	9.45	1.33	11.3	1.62	13.1	1.94	14.0	2.13	14.9	2.24	16.2	2.64	16.6	2.66		
	21	9.45	1.34	11.3	1.63	13.1	2.01	14.0	2.21	14.9	2.43	16.1	2.70	16.4	2.72		
	23	9.45	1.38	11.3	1.74	13.1	2.15	14.0	2.37	14.9	2.60	15.9	2.82	16.2	2.84		
	25	9.45	1.47	11.3	1.86	13.1	2.30	14.0	2.54	14.9	2.79	15.6	2.94	16.0	2.97		
	27	9.45	1.56	11.3	1.98	13.1	2.46	14.0	2.71	14.9	2.98	15.4	3.07	15.8	3.09		
	29	9.45	1.67	11.3	2.12	13.1	2.62	14.0	2.90	14.9	3.16	15.2	3.19	15.5	3.22		
	31	9.45	1.77	11.3	2.26	13.1	2.80	14.0	3.09	14.6	3.29	15.0	3.32	15.3	3.34		
	33	9.45	1.89	11.3	2.40	13.1	2.99	14.0	3.30	14.4	3.41	14.7	3.44	15.1	3.47		
	35	9.45	2.00	11.3	2.56	13.1	3.18	14.0	3.52	14.2	3.54	14.5	3.57	14.9	3.60		
	37	9.45	2.13	11.3	2.72	13.1	3.39	13.8	3.64	13.9	3.66	14.3	3.69	14.6	3.73		
	39	9.45	2.26	11.3	2.90	13.1	3.61	13.5	3.77	13.7	3.79	14.1	3.82	14.4	3.85		
90% 12.60 kW (113)	10	8.50	1.09	10.1	1.31	11.8	1.55	12.6	1.67	13.4	1.79	15.1	2.05	16.7	2.31		
	12	8.50	1.10	10.1	1.33	11.8	1.57	12.6	1.70	13.4	1.83	15.1	2.09	16.7	2.35		
	14	8.50	1.12	10.1	1.36	11.8	1.60	12.6	1.73	13.4	1.86	15.1	2.13	16.7	2.40		
	16	8.50	1.14	10.1	1.38	11.8	1.63	12.6	1.76	13.4	1.90	15.1	2.17	16.7	2.44		
	18	8.50	1.16	10.1	1.41	11.8	1.67	12.6	1.80	13.4	1.94	15.1	2.21	16.4	2.51		
	20	8.50	1.18	10.1	1.44	11.8	1.70	12.6	1.84	13.4	2.01	15.1	2.38	16.2	2.63		
	21	8.50	1.20	10.1	1.45	11.8	1.73	12.6	1.90	13.4	2.08	15.1	2.46	16.1	2.70		
	23	8.50	1.22	10.1	1.51	11.8	1.85	12.6	2.03	13.4	2.23	15.1	2.64	15.9	2.82		
	25	8.50	1.28	10.1	1.61	11.8	1.98	12.6	2.18	13.4	2.38	15.1	2.83	15.6	2.94		
	27	8.50	1.37	10.1	1.72	11.8	2.11	12.6	2.32	13.4	2.55	15.1	3.03	15.4	3.07		
	29	8.50	1.45	10.1	1.83	11.8	2.25	12.6	2.48	13.4	2.72	14.9	3.17	15.2	3.19		
	31	8.50	1.55	10.1	1.95	11.8	2.40	12.6	2.65	13.4	2.90	14.7	3.29	15.0	3.31		
	33	8.50	1.64	10.1	2.07	11.8	2.56	12.6	2.82	13.4	3.10	14.4	3.41	14.7	3.44		
	35	8.50	1.74	10.1	2.21	11.8	2.73	12.6	3.01	13.4	3.30	14.2	3.54	14.5	3.57		
	37	8.50	1.85	10.1	2.35	11.8	2.90	12.6	3.20	13.4	3.52	14.0	3.66	14.3	3.69		
	39	8.50	1.96	10.1	2.49	11.8	3.09	12.6	3.41	13.4	3.75	13.7	3.79	14.0	3.82		
80% 11.20 kW (100)	10	7.56	0.96	9.02	1.15	10.5	1.36	11.2	1.46	11.9	1.57	13.4	1.79	14.8	2.01		
	12	7.56	0.98	9.02	1.17	10.5	1.38	11.2	1.49	11.9	1.60	13.4	1.82	14.8	2.05		
	14	7.56	1.00	9.02	1.19	10.5	1.41	11.2	1.51	11.9	1.63	13.4	1.86	14.8	2.09		
	16	7.56	1.01	9.02	1.22	10.5	1.43	11.2	1.54	11.9	1.66	13.4	1.89	14.8	2.13		
	18	7.56	1.03	9.02	1.24	10.5	1.46	11.2	1.57	11.9	1.69	13.4	1.93	14.8	2.17		
	20	7.56	1.05	9.02	1.26	10.5	1.49	11.2	1.60	11.9	1.72	13.4	2.00	14.8	2.33		
	21	7.56	1.06	9.02	1.27	10.5	1.50	11.2	1.62	11.9	1.76	13.4	2.07	14.8	2.41		
	23	7.56	1.08	9.02	1.30	10.5	1.58	11.2	1.73	11.9	1.88	13.4	2.22	14.8	2.58		
	25	7.56	1.11	9.02	1.38	10.5	1.68	11.2	1.84	11.9	2.01	13.4	2.37	14.8	2.77		
	27	7.56	1.18	9.02	1.47	10.5	1.79	11.2	1.97	11.9	2.15	13.4	2.54	14.8	2.96		
	29	7.56	1.26	9.02	1.57	10.5	1.91	11.2	2.10	11.9	2.29	13.4	2.71	14.8	3.16		
	31	7.56	1.33	9.02	1.67	10.5	2.04	11.2	2.24	11.9	2.45	13.4	2.89	14.6	3.29		
	33	7.56	1.42	9.02	1.77	10.5	2.17	11.2	2.38	11.9	2.61	13.4	3.09	14.4	3.41		
	35	7.56	1.50	9.02	1.88	10.5	2.31	11.2	2.54	11.9	2.78	13.4	3.29	14.2	3.53		
	37	7.56	1.59	9.02	2.00	10.5	2.45	11.2	2.70	11.9	2.96	13.4	3.51	13.9	3.66		
	39	7.56	1.69	9.02	2.12	10.5	2.61	11.2	2.87	11.9	3.15	13.4	3.73	13.7	3.78		
70% 9.80 kW (88)	10	6.61	0.85	7.89	1.01	9.16	1.17	9.80	1.26	10.4	1.35	11.7	1.54	13.0	1.73		
	12	6.61	0.86	7.89	1.02	9.16	1.19	9.80	1.28	10.4	1.38	11.7	1.56	13.0	1.76		
	14	6.61	0.87	7.89	1.04	9.16	1.22	9.80	1.31	10.4	1.40	11.7	1.59	13.0	1.79		
	16	6.61	0.89	7.89	1.06	9.16	1.24	9.80	1.33	10.4	1.43	11.7	1.62	13.0	1.83		
	18	6.61	0.90	7.89	1.08	9.16	1.26	9.80	1.36	10.4	1.45	11.7	1.66	13.0	1.86		
	20	6.61	0.92	7.89	1.10	9.16	1.28	9.80	1.38	10.4	1.48	11.7	1.69	13.0	1.92		
	21	6.61	0.93	7.89	1.11	9.16	1.30	9.80	1.40	10.4	1.50	11.7	1.71	13.0	1.98		
	23	6.61	0.94	7.89	1.13	9.16	1.32	9.80	1.44	10.4	1.57	11.7	1.84	13.0	2.12		
	25	6.61	0.96	7.89	1.17	9.16	1.41	9.80	1.54	10.4	1.67	11.7	1.96	13.0	2.27		
	27	6.61	1.01	7.89	1.25	9.16	1.50	9.80	1.64	10.4	1.79	11.7	2.09	13.0	2.43		
	29	6.61	1.08	7.89	1.32	9.16	1.60	9.80	1.75	10.4	1.90	11.7	2.23	13.0	2.59		
	31	6.61	1.14	7.89	1.41	9.16	1.70	9.80	1.86	10.4	2.03	11.7	2.38	13.0	2.77		
	33	6.61	1.21	7.89	1.49	9.16	1.81	9.80	1.98	10.4	2.16	11.7	2.54	13.0	2.95		
	35	6.61	1.28	7.89	1.58	9.16	1.92	9.80	2.11	10.4	2.30	11.7	2.70	13.0	3.14		
	37	6.61	1.35	7.89	1.68	9.16	2.04	9.80	2.24	10.4	2.44	11.7	2.88	13.0	3.35		
	39	6.61	1.43	7.89	1.78	9.16	2.17	9.80	2.38	10.4	2.60	11.7	3.06	13.0	3.57		

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- The above table shows the average value of conditions which may occur.
Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.
Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.
La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.
Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.
La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.
De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.
Таблица расположенная выше показывает среднее значение условий, которые могут наступить.
Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ125AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB													
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60% 8.40 kW (75)	10	5.67	0.74	6.76	0.87	7.85	1.00	8.40	1.07	8.95	1.14	10.0	1.29	11.1	1.45
	12	5.67	0.75	6.76	0.88	7.85	1.02	8.40	1.09	8.95	1.16	10.0	1.32	11.1	1.48
	14	5.67	0.76	6.76	0.89	7.85	1.03	8.40	1.11	8.95	1.18	10.0	1.34	11.1	1.50
	16	5.67	0.77	6.76	0.91	7.85	1.05	8.40	1.13	8.95	1.21	10.0	1.37	11.1	1.53
	18	5.67	0.78	6.76	0.92	7.85	1.07	8.40	1.15	8.95	1.23	10.0	1.39	11.1	1.56
	20	5.67	0.79	6.76	0.94	7.85	1.09	8.40	1.17	8.95	1.25	10.0	1.42	11.1	1.59
	21	5.67	0.80	6.76	0.95	7.85	1.10	8.40	1.18	8.95	1.26	10.0	1.43	11.1	1.61
	23	5.67	0.81	6.76	0.96	7.85	1.12	8.40	1.20	8.95	1.29	10.0	1.49	11.1	1.71
	25	5.67	0.83	6.76	0.98	7.85	1.16	8.40	1.26	8.95	1.37	10.0	1.59	11.1	1.83
	27	5.67	0.86	6.76	1.04	7.85	1.24	8.40	1.35	8.95	1.46	10.0	1.70	11.1	1.95
	29	5.67	0.91	6.76	1.10	7.85	1.32	8.40	1.43	8.95	1.55	10.0	1.81	11.1	2.08
	31	5.67	0.96	6.76	1.17	7.85	1.40	8.40	1.52	8.95	1.65	10.0	1.92	11.1	2.22
	33	5.67	1.02	6.76	1.24	7.85	1.48	8.40	1.62	8.95	1.75	10.0	2.05	11.1	2.36
	35	5.67	1.08	6.76	1.31	7.85	1.58	8.40	1.72	8.95	1.86	10.0	2.18	11.1	2.51
	37	5.67	1.14	6.76	1.39	7.85	1.67	8.40	1.82	8.95	1.98	10.0	2.31	11.1	2.67
	39	5.67	1.20	6.76	1.47	7.85	1.77	8.40	1.93	8.95	2.10	10.0	2.46	11.1	2.84
50% 7.00 kW (63)	10	4.72	0.63	5.63	0.73	6.54	0.84	7.00	0.89	7.46	0.95	8.37	1.07	9.28	1.19
	12	4.72	0.64	5.63	0.74	6.54	0.85	7.00	0.91	7.46	0.97	8.37	1.09	9.28	1.21
	14	4.72	0.65	5.63	0.75	6.54	0.87	7.00	0.92	7.46	0.98	8.37	1.10	9.28	1.23
	16	4.72	0.66	5.63	0.77	6.54	0.88	7.00	0.94	7.46	1.00	8.37	1.12	9.28	1.25
	18	4.72	0.67	5.63	0.78	6.54	0.89	7.00	0.95	7.46	1.02	8.37	1.14	9.28	1.28
	20	4.72	0.68	5.63	0.79	6.54	0.91	7.00	0.97	7.46	1.03	8.37	1.16	9.28	1.30
	21	4.72	0.68	5.63	0.80	6.54	0.92	7.00	0.98	7.46	1.04	8.37	1.18	9.28	1.31
	23	4.72	0.69	5.63	0.81	6.54	0.93	7.00	1.00	7.46	1.06	8.37	1.20	9.28	1.34
	25	4.72	0.70	5.63	0.82	6.54	0.95	7.00	1.02	7.46	1.09	8.37	1.26	9.28	1.43
	27	4.72	0.71	5.63	0.85	6.54	1.00	7.00	1.08	7.46	1.16	8.37	1.34	9.28	1.53
	29	4.72	0.76	5.63	0.90	6.54	1.06	7.00	1.15	7.46	1.24	8.37	1.42	9.28	1.63
	31	4.72	0.80	5.63	0.96	6.54	1.13	7.00	1.22	7.46	1.31	8.37	1.51	9.28	1.73
	33	4.72	0.84	5.63	1.01	6.54	1.19	7.00	1.29	7.46	1.39	8.37	1.61	9.28	1.84
	35	4.72	0.89	5.63	1.07	6.54	1.26	7.00	1.37	7.46	1.48	8.37	1.71	9.28	1.95
	37	4.72	0.94	5.63	1.13	6.54	1.34	7.00	1.45	7.46	1.57	8.37	1.81	9.28	2.08
	39	4.72	0.99	5.63	1.19	6.54	1.42	7.00	1.53	7.46	1.66	8.37	1.92	9.28	2.20

5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ200AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB															
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB			
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB			
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 22.40 kW (200)	10	15.1	1.80	18.0	2.18	20.9	2.58	22.4	2.79	23.9	3.00	26.8	3.43	28.3	3.55		
	12	15.1	1.83	18.0	2.22	20.9	2.63	22.4	2.84	23.9	3.06	26.8	3.50	28.0	3.53		
	14	15.1	1.86	18.0	2.26	20.9	2.68	22.4	2.90	23.9	3.12	26.8	3.56	27.6	3.51		
	16	15.1	1.90	18.0	2.31	20.9	2.73	22.4	2.96	23.9	3.18	26.7	3.61	27.2	3.57		
	18	15.1	1.93	18.0	2.35	20.9	2.79	22.4	3.01	23.9	3.24	26.3	3.73	26.9	3.75		
	20	15.1	1.97	18.0	2.40	20.9	2.87	22.4	3.17	23.9	3.47	26.0	3.91	26.5	3.94		
	21	15.1	1.99	18.0	2.42	20.9	2.97	22.4	3.28	23.9	3.60	25.8	4.00	26.3	4.03		
	23	15.1	2.04	18.0	2.58	20.9	3.19	22.4	3.51	23.9	3.86	25.4	4.18	25.9	4.21		
	25	15.1	2.18	18.0	2.76	20.9	3.41	22.4	3.76	23.9	4.13	25.0	4.36	25.6	4.40		
	27	15.1	2.32	18.0	2.94	20.9	3.64	22.4	4.02	23.9	4.42	24.7	4.55	25.2	4.58		
	29	15.1	2.47	18.0	3.14	20.9	3.89	22.4	4.30	23.8	4.69	24.3	4.73	24.9	4.77		
	31	15.1	2.63	18.0	3.35	20.9	4.15	22.4	4.59	23.4	4.88	23.9	4.92	24.5	4.96		
	33	15.1	2.80	18.0	3.56	20.9	4.43	22.4	4.89	23.0	5.06	23.6	5.10	24.1	5.15		
	35	15.1	2.97	18.0	3.79	20.9	4.72	22.4	5.22	22.7	5.24	23.2	5.29	23.8	5.34		
	37	15.1	3.16	18.0	4.04	20.9	5.03	22.0	5.40	22.3	5.43	22.9	5.48	23.4	5.53		
	39	15.1	3.35	18.0	4.29	20.9	5.35	21.7	5.59	21.9	5.61	22.5	5.67	23.0	5.72		
90% 20.16 kW (180)	10	13.6	1.61	16.2	1.94	18.8	2.29	20.2	2.47	21.5	2.66	24.1	3.04	26.7	3.42		
	12	13.6	1.64	16.2	1.98	18.8	2.33	20.2	2.52	21.5	2.71	24.1	3.09	26.7	3.49		
	14	13.6	1.67	16.2	2.01	18.8	2.38	20.2	2.57	21.5	2.76	24.1	3.15	26.7	3.55		
	16	13.6	1.69	16.2	2.05	18.8	2.42	20.2	2.62	21.5	2.81	24.1	3.22	26.7	3.61		
	18	13.6	1.73	16.2	2.09	18.8	2.47	20.2	2.67	21.5	2.87	24.1	3.28	26.3	3.73		
	20	13.6	1.76	16.2	2.13	18.8	2.52	20.2	2.72	21.5	2.98	24.1	3.52	25.9	3.91		
	21	13.6	1.77	16.2	2.15	18.8	2.56	20.2	2.82	21.5	3.08	24.1	3.65	25.8	4.00		
	23	13.6	1.81	16.2	2.24	18.8	2.74	20.2	3.02	21.5	3.30	24.1	3.92	25.4	4.18		
	25	13.6	1.90	16.2	2.39	18.8	2.93	20.2	3.23	21.5	3.53	24.1	4.19	25.0	4.36		
	27	13.6	2.03	16.2	2.55	18.8	3.13	20.2	3.45	21.5	3.78	24.1	4.49	24.7	4.55		
	29	13.6	2.16	16.2	2.72	18.8	3.34	20.2	3.68	21.5	4.04	23.8	4.70	24.3	4.73		
	31	13.6	2.29	16.2	2.89	18.8	3.56	20.2	3.93	21.5	4.31	23.4	4.88	23.9	4.92		
	33	13.6	2.44	16.2	3.08	18.8	3.80	20.2	4.19	21.5	4.59	23.1	5.06	23.6	5.10		
	35	13.6	2.59	16.2	3.27	18.8	4.04	20.2	4.46	21.5	4.90	22.7	5.25	23.2	5.29		
	37	13.6	2.74	16.2	3.48	18.8	4.30	20.2	4.75	21.5	5.22	22.4	5.43	22.8	5.48		
	39	13.6	2.91	16.2	3.70	18.8	4.58	20.2	5.06	21.5	5.56	22.0	5.62	22.5	5.66		
80% 17.92 kW (160)	10	12.1	1.43	14.4	1.71	16.8	2.01	17.9	2.17	19.1	2.33	21.4	2.65	23.7	2.99		
	12	12.1	1.45	14.4	1.74	16.8	2.05	17.9	2.21	19.1	2.37	21.4	2.70	23.7	3.04		
	14	12.1	1.48	14.4	1.77	16.8	2.08	17.9	2.25	19.1	2.41	21.4	2.75	23.7	3.10		
	16	12.1	1.50	14.4	1.80	16.8	2.12	17.9	2.29	19.1	2.46	21.4	2.81	23.7	3.16		
	18	12.1	1.53	14.4	1.84	16.8	2.16	17.9	2.33	19.1	2.51	21.4	2.86	23.7	3.22		
	20	12.1	1.55	14.4	1.87	16.8	2.21	17.9	2.38	19.1	2.56	21.4	2.97	23.7	3.45		
	21	12.1	1.57	14.4	1.89	16.8	2.23	17.9	2.40	19.1	2.61	21.4	3.07	23.7	3.57		
	23	12.1	1.60	14.4	1.93	16.8	2.34	17.9	2.56	19.1	2.79	21.4	3.29	23.7	3.83		
	25	12.1	1.65	14.4	2.05	16.8	2.49	17.9	2.73	19.1	2.99	21.4	3.52	23.7	4.10		
	27	12.1	1.75	14.4	2.18	16.8	2.66	17.9	2.92	19.1	3.19	21.4	3.76	23.7	4.39		
	29	12.1	1.86	14.4	2.32	16.8	2.84	17.9	3.11	19.1	3.40	21.4	4.02	23.7	4.69		
	31	12.1	1.98	14.4	2.47	16.8	3.02	17.9	3.32	19.1	3.63	21.4	4.29	23.4	4.87		
	33	12.1	2.10	14.4	2.63	16.8	3.22	17.9	3.53	19.1	3.86	21.4	4.58	23.0	5.06		
	35	12.1	2.23	14.4	2.79	16.8	3.42	17.9	3.76	19.1	4.12	21.4	4.88	22.7	5.24		
	37	12.1	2.36	14.4	2.96	16.8	3.64	17.9	4.00	19.1	4.38	21.4	5.20	22.3	5.43		
	39	12.1	2.50	14.4	3.15	16.8	3.87	17.9	4.26	19.1	4.66	21.4	5.54	21.9	5.61		
70% 15.68 kW (140)	10	10.6	1.26	12.6	1.49	14.7	1.74	15.7	1.87	16.7	2.00	18.7	2.28	20.8	2.56		
	12	10.6	1.28	12.6	1.52	14.7	1.77	15.7	1.90	16.7	2.04	18.7	2.32	20.8	2.61		
	14	10.6	1.30	12.6	1.54	14.7	1.80	15.7	1.94	16.7	2.08	18.7	2.36	20.8	2.66		
	16	10.6	1.32	12.6	1.57	14.7	1.83	15.7	1.97	16.7	2.12	18.7	2.41	20.8	2.71		
	18	10.6	1.34	12.6	1.60	14.7	1.87	15.7	2.01	16.7	2.16	18.7	2.45	20.8	2.76		
	20	10.6	1.36	12.6	1.62	14.7	1.90	15.7	2.05	16.7	2.20	18.7	2.50	20.8	2.84		
	21	10.6	1.37	12.6	1.64	14.7	1.92	15.7	2.07	16.7	2.22	18.7	2.54	20.8	2.94		
	23	10.6	1.40	12.6	1.67	14.7	1.96	15.7	2.14	16.7	2.33	18.7	2.72	20.8	3.15		
	25	10.6	1.42	12.6	1.74	14.7	2.09	15.7	2.28	16.7	2.48	18.7	2.91	20.8	3.37		
	27	10.6	1.50	12.6	1.85	14.7	2.23	15.7	2.43	16.7	2.65	18.7	3.11	20.8	3.60		
	29	10.6	1.59	12.6	1.96	14.7	2.37	15.7	2.59	16.7	2.82	18.7	3.31	20.8	3.85		
	31	10.6	1.69	12.6	2.09	14.7	2.52	15.7	2.76	16.7	3.01	18.7	3.53	20.8	4.10		
	33	10.6	1.79	12.6	2.21	14.7	2.68	15.7	2.94	16.7	3.20	18.7	3.76	20.8	4.38		
	35	10.6	1.90	12.6	2.35	14.7	2.85	15.7	3.12	16.7	3.40	18.7	4.01	20.8	4.66		
	37	10.6	2.01	12.6	2.49	14.7	3.03	15.7	3.32	16.7	3.62	18.7	4.27	20.8	4.97		
	39	10.6	2.13	12.6	2.64	14.7	3.22	15.7	3.52	16.7	3.85	18.7	4.54	20.8	5.29		

4TW32032-1

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- The above Table shows the average value of conditions which may occur.
Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.
Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.
La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.
Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.
La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.
De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.
Таблица расположенная выше показывает среднее значение условий, которые могут наступить.
Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ200AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB													
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60% 13.44 kW (120)	10	9.1	1.09	10.8	1.28	12.6	1.48	13.4	1.59	14.3	1.70	16.1	1.92	17.8	2.15
	12	9.1	1.11	10.8	1.30	12.6	1.51	13.4	1.62	14.3	1.73	16.1	1.95	17.8	2.19
	14	9.1	1.12	10.8	1.32	12.6	1.53	13.4	1.64	14.3	1.76	16.1	1.99	17.8	2.23
	16	9.1	1.14	10.8	1.34	12.6	1.56	13.4	1.67	14.3	1.79	16.1	2.03	17.8	2.27
	18	9.1	1.16	10.8	1.37	12.6	1.59	13.4	1.70	14.3	1.82	16.1	2.06	17.8	2.32
	20	9.1	1.18	10.8	1.39	12.6	1.62	13.4	1.73	14.3	1.86	16.1	2.10	17.8	2.36
	21	9.1	1.19	10.8	1.40	12.6	1.63	13.4	1.75	14.3	1.87	16.1	2.12	17.8	2.39
	23	9.1	1.21	10.8	1.43	12.6	1.66	13.4	1.78	14.3	1.91	16.1	2.21	17.8	2.54
	25	9.1	1.23	10.8	1.45	12.6	1.73	13.4	1.87	14.3	2.03	16.1	2.36	17.8	2.71
	27	9.1	1.27	10.8	1.54	12.6	1.84	13.4	2.00	14.3	2.16	16.1	2.51	17.8	2.89
	29	9.1	1.35	10.8	1.63	12.6	1.95	13.4	2.12	14.3	2.30	16.1	2.68	17.8	3.09
	31	9.1	1.43	10.8	1.73	12.6	2.07	13.4	2.26	14.3	2.45	16.1	2.85	17.8	3.29
	33	9.1	1.51	10.8	1.84	12.6	2.20	13.4	2.40	14.3	2.60	16.1	3.03	17.8	3.50
	35	9.1	1.59	10.8	1.95	12.6	2.34	13.4	2.54	14.3	2.76	16.1	3.23	17.8	3.73
	37	9.1	1.69	10.8	2.06	12.6	2.48	13.4	2.70	14.3	2.93	16.1	3.43	17.8	3.97
	39	9.1	1.78	10.8	2.18	12.6	2.63	13.4	2.86	14.3	3.11	16.1	3.64	17.8	4.22
50% 11.20 kW (100)	10	7.56	0.94	9.0	1.09	10.5	1.24	11.2	1.33	11.9	1.41	13.4	1.58	14.8	1.76
	12	7.56	0.95	9.0	1.10	10.5	1.26	11.2	1.35	11.9	1.43	13.4	1.61	14.8	1.79
	14	7.56	0.96	9.0	1.12	10.5	1.28	11.2	1.37	11.9	1.46	13.4	1.64	14.8	1.83
	16	7.56	0.98	9.0	1.14	10.5	1.30	11.2	1.39	11.9	1.48	13.4	1.67	14.8	1.86
	18	7.56	0.99	9.0	1.15	10.5	1.32	11.2	1.41	11.9	1.51	13.4	1.70	14.8	1.89
	20	7.56	1.01	9.0	1.17	10.5	1.35	11.2	1.44	11.9	1.53	13.4	1.73	14.8	1.93
	21	7.56	1.01	9.0	1.18	10.5	1.36	11.2	1.45	11.9	1.55	13.4	1.74	14.8	1.95
	23	7.56	1.03	9.0	1.20	10.5	1.38	11.2	1.48	11.9	1.57	13.4	1.78	14.8	1.99
	25	7.56	1.04	9.0	1.22	10.5	1.41	11.2	1.51	11.9	1.62	13.4	1.87	14.8	2.13
	27	7.56	1.06	9.0	1.26	10.5	1.48	11.2	1.60	11.9	1.73	13.4	1.99	14.8	2.27
	29	7.56	1.12	9.0	1.34	10.5	1.58	11.2	1.70	11.9	1.83	13.4	2.11	14.8	2.41
	31	7.56	1.18	9.0	1.42	10.5	1.67	11.2	1.81	11.9	1.95	13.4	2.25	14.8	2.57
	33	7.56	1.25	9.0	1.50	10.5	1.77	11.2	1.91	11.9	2.07	13.4	2.38	14.8	2.73
	35	7.56	1.32	9.0	1.58	10.5	1.87	11.2	2.03	11.9	2.19	13.4	2.53	14.8	2.90
	37	7.56	1.39	9.0	1.67	10.5	1.98	11.2	2.15	11.9	2.32	13.4	2.69	14.8	3.08
	39	7.56	1.47	9.0	1.77	10.5	2.10	11.2	2.28	11.9	2.46	13.4	2.85	14.8	3.27

5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ250AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB											
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB	
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 28.00 kW (250)	10	18.9	2.56	22.5	3.10	26.2	3.67	28.0	3.97	29.8	4.27	33.5	4.88
	12	18.9	2.60	22.5	3.16	26.2	3.74	28.0	4.04	29.8	4.35	33.5	4.97
	14	18.9	2.65	22.5	3.22	26.2	3.81	28.0	4.12	29.8	4.43	33.5	5.07
	16	18.9	2.70	22.5	3.28	26.2	3.89	28.0	4.20	29.8	4.52	33.5	5.13
	18	18.9	2.75	22.5	3.34	26.2	3.96	28.0	4.28	29.8	4.61	32.9	5.30
	20	18.9	2.80	22.5	3.41	26.2	4.08	28.0	4.50	29.8	4.94	32.4	5.55
	21	18.9	2.83	22.5	3.44	26.2	4.23	28.0	4.66	29.8	5.11	32.2	5.68
	23	18.9	2.90	22.5	3.67	26.2	4.53	28.0	4.99	29.8	5.48	31.8	5.94
	25	18.9	3.09	22.5	3.92	26.2	4.85	28.0	5.35	29.8	5.87	31.3	6.20
	27	18.9	3.30	22.5	4.18	26.2	5.18	28.0	5.72	29.8	6.28	30.8	6.46
90% 25.20 kW (225)	29	18.9	3.51	22.5	4.46	26.2	5.53	28.0	6.11	29.7	6.67	30.4	6.73
	31	18.9	3.74	22.5	4.76	26.2	5.90	28.0	6.52	29.3	6.93	29.9	6.99
	33	18.9	3.97	22.5	5.07	26.2	6.29	28.0	6.96	28.8	7.19	29.5	7.25
	35	18.9	4.22	22.5	5.39	26.2	6.71	28.0	7.42	28.3	7.45	29.0	7.52
	37	18.9	4.49	22.5	5.74	26.2	7.15	27.5	7.68	27.9	7.72	28.6	7.79
	39	18.9	4.77	22.5	6.10	26.2	7.61	27.1	7.94	27.4	7.98	28.1	8.05
	10	17.0	2.29	20.3	2.76	23.6	3.26	25.2	3.52	26.8	3.78	30.1	4.32
	12	17.0	2.33	20.3	2.81	23.6	3.32	25.2	3.58	26.8	3.85	30.1	4.40
	14	17.0	2.37	20.3	2.86	23.6	3.38	25.2	3.65	26.8	3.92	30.1	4.48
	16	17.0	2.41	20.3	2.91	23.6	3.45	25.2	3.72	26.8	4.00	30.1	4.57
80% 22.40 kW (200)	18	17.0	2.45	20.3	2.97	23.6	3.51	25.2	3.79	26.8	4.08	30.1	4.66
	20	17.0	2.50	20.3	3.03	23.6	3.58	25.2	3.87	26.8	4.23	30.1	5.01
	21	17.0	2.52	20.3	3.06	23.6	3.64	25.2	4.00	26.8	4.38	30.1	5.19
	23	17.0	2.57	20.3	3.18	23.6	3.90	25.2	4.29	26.8	4.70	30.1	5.57
	25	17.0	2.71	20.3	3.40	23.6	4.17	25.2	4.59	26.8	5.02	30.1	5.96
	27	17.0	2.88	20.3	3.62	23.6	4.45	25.2	4.90	26.8	5.37	30.1	6.38
	29	17.0	3.07	20.3	3.86	23.6	4.75	25.2	5.23	26.8	5.74	29.8	6.67
	31	17.0	3.26	20.3	4.11	23.6	5.06	25.2	5.58	26.8	6.12	29.3	6.93
	33	17.0	3.46	20.3	4.37	23.6	5.40	25.2	5.95	26.8	6.53	28.9	7.20
	35	17.0	3.68	20.3	4.65	23.6	5.75	25.2	6.34	26.8	6.96	28.4	7.46
70% 19.60 kW (175)	37	17.0	3.90	20.3	4.94	23.6	6.12	25.2	6.75	26.8	7.42	27.9	7.72
	39	17.0	4.14	20.3	5.26	23.6	6.51	25.2	7.19	26.8	7.90	27.5	7.99
	10	15.1	2.03	18.0	2.43	20.9	2.86	22.4	3.08	23.9	3.30	26.8	3.77
	12	15.1	2.06	18.0	2.47	20.9	2.91	22.4	3.14	23.9	3.37	26.8	3.84
	14	15.1	2.10	18.0	2.52	20.9	2.96	22.4	3.19	23.9	3.43	26.8	3.91
	16	15.1	2.13	18.0	2.56	20.9	3.02	22.4	3.25	23.9	3.49	26.8	3.99
	18	15.1	2.17	18.0	2.61	20.9	3.08	22.4	3.32	23.9	3.56	26.8	4.07
	20	15.1	2.21	18.0	2.66	20.9	3.14	22.4	3.38	23.9	3.63	26.8	4.22
	21	15.1	2.23	18.0	2.68	20.9	3.17	22.4	3.42	23.9	3.71	26.8	4.37
	23	15.1	2.27	18.0	2.74	20.9	3.32	22.4	3.64	23.9	3.97	26.8	4.68
	25	15.1	2.34	18.0	2.91	20.9	3.55	22.4	3.89	23.9	4.24	26.8	5.01
	27	15.1	2.49	18.0	3.10	20.9	3.78	22.4	4.15	23.9	4.53	26.8	5.35
	29	15.1	2.65	18.0	3.30	20.9	4.03	22.4	4.42	23.9	4.84	26.8	5.71
	31	15.1	2.81	18.0	3.51	20.9	4.29	22.4	4.71	23.9	5.16	26.8	6.10
	33	15.1	2.99	18.0	3.73	20.9	4.57	22.4	5.02	23.9	5.49	26.8	6.50
	35	15.1	3.17	18.0	3.97	20.9	4.86	22.4	5.34	23.9	5.85	26.8	6.93
	37	15.1	3.36	18.0	4.21	20.9	5.17	22.4	5.69	23.9	6.23	26.8	7.39
	39	15.1	3.56	18.0	4.47	20.9	5.50	22.4	6.05	23.9	6.63	26.8	7.87
	10	13.2	1.79	15.8	2.12	18.3	2.47	19.6	2.66	20.9	2.85	23.4	3.24
	12	13.2	1.81	15.8	2.15	18.3	2.52	19.6	2.71	20.9	2.90	23.4	3.30
	14	13.2	1.84	15.8	2.19	18.3	2.56	19.6	2.75	20.9	2.95	23.4	3.36
	16	13.2	1.87	15.8	2.23	18.3	2.61	19.6	2.81	20.9	3.01	23.4	3.42
	18	13.2	1.90	15.8	2.27	18.3	2.66	19.6	2.86	20.9	3.06	23.4	3.49
	20	13.2	1.93	15.8	2.31	18.3	2.71	19.6	2.91	20.9	3.12	23.4	3.56
	21	13.2	1.95	15.8	2.33	18.3	2.73	19.6	2.94	20.9	3.15	23.4	3.61
	23	13.2	1.98	15.8	2.37	18.3	2.79	19.6	3.04	20.9	3.31	23.4	3.87
	25	13.2	2.02	15.8	2.47	18.3	2.97	19.6	3.25	20.9	3.53	23.4	4.14
	27	13.2	2.14	15.8	2.63	18.3	3.17	19.6	3.46	20.9	3.77	23.4	4.42
	29	13.2	2.27	15.8	2.79	18.3	3.37	19.6	3.69	20.9	4.01	23.4	4.71
	31	13.2	2.40	15.8	2.96	18.3	3.59	19.6	3.92	20.9	4.27	23.4	5.02
	33	13.2	2.55	15.8	3.15	18.3	3.82	19.6	4.17	20.9	4.55	23.4	5.35
	35	13.2	2.70	15.8	3.34	18.3	4.05	19.6	4.44	20.9	4.84	23.4	5.70
	37	13.2	2.85	15.8	3.54	18.3	4.31	19.6	4.72	20.9	5.15	23.4	6.07
	39	13.2	3.02	15.8	3.75	18.3	4.57	19.6	5.01	20.9	5.47	23.4	6.45

4TW32032-1

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- The above table shows the average value of conditions which may occur.
Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.
Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.
La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.
Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.
La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.
De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.
Таблица расположенная выше показывает среднее значение условий, которые могут наступить.
Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 1 Cooling Capacity Tables

ERQ250AW1

Cooling

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. (°CDB)	Indoor air temp. °CWB													
		14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
		20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
60% 16.80 kW (150)	10	11.3	1.55	13.5	1.82	15.7	2.11	16.8	2.26	17.9	2.41	20.1	2.73	22.3	3.06
	12	11.3	1.58	13.5	1.85	15.7	2.15	16.8	2.30	17.9	2.45	20.1	2.78	22.3	3.11
	14	11.3	1.60	13.5	1.88	15.7	2.18	16.8	2.34	17.9	2.50	20.1	2.83	22.3	3.17
	16	11.3	1.62	13.5	1.91	15.7	2.22	16.8	2.38	17.9	2.54	20.1	2.88	22.3	3.23
	18	11.3	1.65	13.5	1.94	15.7	2.26	16.8	2.42	17.9	2.59	20.1	2.93	22.3	3.29
	20	11.3	1.67	13.5	1.98	15.7	2.30	16.8	2.47	17.9	2.64	20.1	2.99	22.3	3.36
	21	11.3	1.69	13.5	1.99	15.7	2.32	16.8	2.49	17.9	2.66	20.1	3.02	22.3	3.39
	23	11.3	1.71	13.5	2.03	15.7	2.36	16.8	2.54	17.9	2.71	20.1	3.14	22.3	3.61
	25	11.3	1.74	13.5	2.06	15.7	2.45	16.8	2.66	17.9	2.88	20.1	3.35	22.3	3.85
	27	11.3	1.81	13.5	2.19	15.7	2.61	16.8	2.84	17.9	3.07	20.1	3.57	22.3	4.11
	29	11.3	1.91	13.5	2.32	15.7	2.78	16.8	3.02	17.9	3.27	20.1	3.81	22.3	4.39
	31	11.3	2.03	13.5	2.46	15.7	2.95	16.8	3.21	17.9	3.48	20.1	4.05	22.3	4.67
	33	11.3	2.14	13.5	2.61	15.7	3.13	16.8	3.41	17.9	3.70	20.1	4.31	22.3	4.98
	35	11.3	2.27	13.5	2.77	15.7	3.32	16.8	3.62	17.9	3.93	20.1	4.59	22.3	5.30
	37	11.3	2.40	13.5	2.93	15.7	3.52	16.8	3.84	17.9	4.17	20.1	4.88	22.3	5.64
	39	11.3	2.53	13.5	3.10	15.7	3.73	16.8	4.07	17.9	4.43	20.1	5.18	22.3	6.00
50% 14.00 kW (125)	10	9.45	1.34	11.3	1.55	13.1	1.77	14.0	1.89	14.9	2.00	16.7	2.25	18.6	2.51
	12	9.45	1.35	11.3	1.57	13.1	1.80	14.0	1.91	14.9	2.04	16.7	2.29	18.6	2.55
	14	9.45	1.37	11.3	1.59	13.1	1.82	14.0	1.95	14.9	2.07	16.7	2.33	18.6	2.60
	16	9.45	1.39	11.3	1.61	13.1	1.85	14.0	1.98	14.9	2.10	16.7	2.37	18.6	2.64
	18	9.45	1.41	11.3	1.64	13.1	1.88	14.0	2.01	14.9	2.14	16.7	2.41	18.6	2.69
	20	9.45	1.43	11.3	1.66	13.1	1.91	14.0	2.04	14.9	2.18	16.7	2.45	18.6	2.74
	21	9.45	1.44	11.3	1.68	13.1	1.93	14.0	2.06	14.9	2.20	16.7	2.48	18.6	2.77
	23	9.45	1.46	11.3	1.70	13.1	1.96	14.0	2.10	14.9	2.24	16.7	2.52	18.6	2.83
	25	9.45	1.48	11.3	1.73	13.1	2.00	14.0	2.14	14.9	2.31	16.7	2.65	18.6	3.02
	27	9.45	1.51	11.3	1.80	13.1	2.11	14.0	2.28	14.9	2.45	16.7	2.82	18.6	3.22
	29	9.45	1.59	11.3	1.90	13.1	2.24	14.0	2.42	14.9	2.61	16.7	3.00	18.6	3.43
	31	9.45	1.68	11.3	2.01	13.1	2.37	14.0	2.57	14.9	2.77	16.7	3.19	18.6	3.65
	33	9.45	1.78	11.3	2.13	13.1	2.52	14.0	2.72	14.9	2.94	16.7	3.39	18.6	3.88
	35	9.45	1.88	11.3	2.25	13.1	2.66	14.0	2.88	14.9	3.11	16.7	3.60	18.6	4.12
	37	9.45	1.98	11.3	2.38	13.1	2.82	14.0	3.05	14.9	3.30	16.7	3.82	18.6	4.38
	39	9.45	2.09	11.3	2.51	13.1	2.98	14.0	3.23	14.9	3.50	16.7	4.05	18.6	4.65

5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ125AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. °CDB °CWB	Indoor air temp. °CWB											
		16.0		18.0		20.0		21.0		22.0		24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 14.00 kW (125)	-19.8	10.4	3.61	10.4	3.76	10.4	3.91	10.3	3.98	10.3	4.06	10.3	4.20
	-18.8	10.7	3.69	10.7	3.84	10.7	3.98	10.7	4.05	10.6	4.12	10.6	4.27
	-16.7	11.3	3.84	11.3	3.98	11.3	4.11	11.3	4.18	11.3	4.25	11.2	4.38
	-13.7	12.0	3.97	11.9	4.10	11.9	4.23	11.9	4.29	11.9	4.36	11.9	4.49
	-11.8	12.6	4.09	12.6	4.21	12.5	4.34	12.5	4.40	12.5	4.46	12.5	4.58
	-9.8	13.2	4.20	13.2	4.32	13.2	4.43	13.2	4.49	13.1	4.55	13.1	4.66
	-9.5	13.5	4.25	13.5	4.36	13.5	4.48	13.5	4.53	13.5	4.59	13.4	4.70
	-8.5	13.8	4.30	13.8	4.41	13.8	4.52	13.7	4.57	13.7	4.63	13.7	4.74
	-7.0	14.3	4.36	14.3	4.47	14.2	4.58	14.2	4.63	14.2	4.68	13.9	4.67
	-5.0	14.9	4.45	14.9	4.55	14.9	4.65	14.8	4.70	14.8	4.76	13.9	4.42
	-3.0	15.5	4.52	15.5	4.62	15.5	4.72	15.4	4.77	15.0	4.60	13.9	4.21
	0.0	16.4	4.63	16.4	4.72	16.0	4.63	15.5	4.45	15.0	4.27	13.9	3.92
	3.0	17.4	4.72	17.0	4.68	16.0	4.34	15.5	4.17	15.0	4.00	13.9	3.68
	5.0	18.0	4.78	17.0	4.49	16.0	4.16	15.5	4.00	15.0	3.84	13.9	3.54
	7.0	18.1	4.63	17.0	4.31	16.0	4.00	15.5	3.85	15.0	3.70	13.9	3.40
	9.0	18.1	4.45	17.0	4.15	16.0	3.85	15.5	3.71	15.0	3.56	13.9	3.28
	11.0	18.1	4.29	17.0	4.00	16.0	3.71	15.5	3.57	15.0	3.44	13.9	3.17
	13.0	18.1	4.13	17.0	3.85	16.0	3.58	15.5	3.45	15.0	3.32	13.9	3.06
	15.0	18.1	3.99	17.0	3.72	16.0	3.46	15.5	3.33	15.0	3.21	13.9	2.96
90% 12.60 kW (113)	-19.8	10.4	3.87	10.3	4.00	10.3	4.14	10.3	4.20	10.3	4.27	10.3	4.40
	-18.8	10.7	3.94	10.6	4.07	10.6	4.20	10.6	4.27	10.6	4.33	10.6	4.46
	-16.7	11.3	4.08	11.3	4.20	11.2	4.32	11.2	4.38	11.2	4.44	11.2	4.57
	-13.7	11.9	4.20	11.9	4.31	11.9	4.43	11.9	4.49	11.8	4.54	11.8	4.66
	-11.8	12.6	4.31	12.5	4.42	12.5	4.53	12.5	4.58	12.5	4.63	12.4	4.74
	-9.8	13.2	4.40	13.2	4.51	13.1	4.61	13.1	4.66	13.1	4.72	12.5	4.52
	-9.5	13.5	4.45	13.5	4.55	13.4	4.65	13.4	4.70	13.4	4.75	12.5	4.39
	-8.5	13.8	4.49	13.7	4.59	13.7	4.69	13.7	4.74	13.5	4.67	12.5	4.28
	-7.0	14.2	4.55	14.2	4.65	14.2	4.74	13.9	4.66	13.5	4.47	12.5	4.10
	-5.0	14.9	4.63	14.8	4.72	14.4	4.60	13.9	4.42	13.5	4.24	12.5	3.90
	-3.0	15.5	4.70	15.3	4.73	14.4	4.38	13.9	4.21	13.5	4.04	12.5	3.72
	0.0	16.3	4.72	15.3	4.40	14.4	4.08	13.9	3.92	13.5	3.77	12.5	3.47
	3.0	16.3	4.42	15.3	4.12	14.4	3.82	13.9	3.68	13.5	3.53	12.5	3.26
	5.0	16.3	4.24	15.3	3.95	14.4	3.67	13.9	3.53	13.5	3.40	12.5	3.13
	7.0	16.3	4.07	15.3	3.80	14.4	3.53	13.9	3.40	13.5	3.27	12.5	3.02
	9.0	16.3	3.92	15.3	3.66	14.4	3.40	13.9	3.28	13.5	3.16	12.5	2.91
	11.0	16.3	3.78	15.3	3.53	14.4	3.29	13.9	3.17	13.5	3.05	12.5	2.82
	13.0	16.3	3.65	15.3	3.41	14.4	3.17	13.9	3.06	13.5	2.94	12.5	2.72
	15.0	16.3	3.52	15.3	3.29	14.4	3.07	13.9	2.96	13.5	2.85	12.5	2.64
80% 11.20 kW (100)	-19.8	10.3	4.13	10.3	4.25	10.3	4.37	10.3	4.43	10.2	4.49	10.2	4.60
	-18.8	10.6	4.20	10.6	4.31	10.6	4.43	10.6	4.48	10.6	4.54	10.5	4.66
	-16.7	11.2	4.32	11.2	4.42	11.2	4.53	11.2	4.59	11.2	4.64	11.2	4.75
	-13.7	11.9	4.42	11.9	4.53	11.8	4.63	11.8	4.68	11.8	4.73	11.2	4.43
	-11.8	12.5	4.52	12.5	4.62	12.5	4.71	12.4	4.73	12.0	4.54	11.2	4.16
	-9.8	13.1	4.61	13.1	4.70	12.8	4.63	12.4	4.45	12.0	4.27	11.2	3.92
	-9.5	13.4	4.65	13.4	4.74	12.8	4.50	12.4	4.32	12.0	4.15	11.2	3.81
	-8.5	13.7	4.68	13.6	4.73	12.8	4.38	12.4	4.21	12.0	4.04	11.2	3.72
	-7.0	14.2	4.74	13.6	4.53	12.8	4.20	12.4	4.04	12.0	3.88	11.2	3.57
	-5.0	14.4	4.62	13.6	4.30	12.8	3.99	12.4	3.84	12.0	3.69	11.2	3.39
	-3.0	14.4	4.40	13.6	4.10	12.8	3.80	12.4	3.66	12.0	3.52	11.2	3.24
	0.0	14.4	4.09	13.6	3.82	12.8	3.55	12.4	3.41	12.0	3.28	11.2	3.03
	3.0	14.4	3.84	13.6	3.58	12.8	3.33	12.4	3.21	12.0	3.09	11.2	2.85
	5.0	14.4	3.68	13.6	3.44	12.8	3.20	12.4	3.09	12.0	2.97	11.2	2.75
	7.0	14.4	3.55	13.6	3.31	12.8	3.09	12.4	2.97	12.0	2.86	11.2	2.65
	9.0	14.4	3.42	13.6	3.19	12.8	2.98	12.4	2.87	12.0	2.77	11.2	2.56
	11.0	14.4	3.30	13.6	3.09	12.8	2.88	12.4	2.78	12.0	2.67	11.2	2.48
	13.0	14.4	3.18	13.6	2.98	12.8	2.78	12.4	2.68	12.0	2.59	11.2	2.40
	15.0	14.4	3.08	13.6	2.88	12.8	2.69	12.4	2.60	12.0	2.51	11.2	2.32

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- is shown as reference
When selecting the unit models, avoid the outdoor air temperature range shown by ■
■ dient als Verweis.
Vermeiden Sie bei der Auswahl der Gerätemodelle den als ■ markierten Temperaturbereich der Außenluft.
■ εμφανίζεται σαν τιμή αναφοράς.
Κατά την επιλογή μοντέλων μονάδων, αποφύγετε την περιοχή θερμοκρασίας εξωτερικού αέρα που εμφανίζεται στο. ■
■ se muestra a modo de referencia.
Cuando seleccione los modelos de unidad, evite el intervalo de temperaturas del aire exterior indicado mediante ■
■ est indiqué à titre de référence.
Lors de la sélection des modèles d'unité, évitez la plage de température d'air extérieur repérée par ■
■ viene mostrato come riferimento.
Nel selezionare i modelli delle unità, non considerare i valori di temperatura dell'aria esterna indicati con il colore ■
■ wordt ter referentie opgegeven
Bij selectie van de modellen dient u het gemarkeerde ■ bereik voor de buitenluchttemperatuur te vermijden.
■ приведено для справки
При выборе моделей блоков избегайте диапазон температура наружного воздуха, показанный в ■
- referans olarak görülmektedir.
Ünite modellerini seçerken, görülen dış hava sıcaklığı aralığından kaçının ■
The above table shows the average value of conditions which may occur.
Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.
Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.
La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.
Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.
La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.
De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.
Таблица расположенная выше показывает среднее значение условий, которые могут наступить.
Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ125AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp.		Indoor air temp. °CWB											
			16.0		18.0		20.0		21.0		22.0		24.0	
	°CDB	°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70% 9.80 kW (88)	-19.8	-20.0	10.3	4.39	10.2	4.49	10.2	4.60	10.2	4.65	10.2	4.70	9.8	4.50
	-18.8	-19.0	10.6	4.45	10.6	4.55	10.5	4.65	10.5	4.70	10.5	4.73	9.8	4.33
	-16.7	-17.0	11.2	4.55	11.2	4.65	11.2	4.74	10.8	4.58	10.5	4.40	9.8	4.03
	-13.7	-15.0	11.8	4.65	11.8	4.74	11.2	4.46	10.8	4.28	10.5	4.11	9.8	3.78
	-11.8	-13.0	12.5	4.73	11.9	4.51	11.2	4.18	10.8	4.02	10.5	3.86	9.8	3.55
	-9.8	-11.0	12.6	4.56	11.9	4.24	11.2	3.94	10.8	3.79	10.5	3.64	9.8	3.35
	-9.5	-10.0	12.6	4.43	11.9	4.12	11.2	3.83	10.8	3.68	10.5	3.54	9.8	3.26
	-8.5	-9.1	12.6	4.31	11.9	4.02	11.2	3.73	10.8	3.59	10.5	3.45	9.8	3.18
	-7.0	-7.6	12.6	4.14	11.9	3.86	11.2	3.59	10.8	3.45	10.5	3.32	9.8	3.06
	-5.0	-5.6	12.6	3.93	11.9	3.67	11.2	3.41	10.8	3.28	10.5	3.16	9.8	2.92
	-3.0	-3.7	12.6	3.75	11.9	3.50	11.2	3.26	10.8	3.14	10.5	3.02	9.8	2.79
	0.0	-0.7	12.6	3.49	11.9	3.27	11.2	3.04	10.8	2.93	10.5	2.83	9.8	2.61
	3.0	2.2	12.6	3.28	11.9	3.07	11.2	2.86	10.8	2.76	10.5	2.66	9.8	2.47
	5.0	4.1	12.6	3.16	11.9	2.96	11.2	2.76	10.8	2.66	10.5	2.57	9.8	2.38
	7.0	6.0	12.6	3.04	11.9	2.85	11.2	2.66	10.8	2.57	10.5	2.48	9.8	2.30
	9.0	7.9	12.6	2.94	11.9	2.75	11.2	2.57	10.8	2.48	10.5	2.39	9.8	2.22
	11.0	9.8	12.6	2.84	11.9	2.66	11.2	2.49	10.8	2.40	10.5	2.32	9.8	2.15
	13.0	11.8	12.6	2.74	11.9	2.57	11.2	2.41	10.8	2.32	10.5	2.24	9.8	2.08
	15.0	13.7	12.6	2.66	11.9	2.49	11.2	2.33	10.8	2.25	10.5	2.18	9.8	2.02
60% 8.40 kW (75)	-19.8	-20.0	10.2	4.65	10.2	4.74	9.6	4.41	9.3	4.23	9.0	4.06	8.4	3.73
	-18.8	-19.0	10.5	4.70	10.2	4.58	9.6	4.24	9.3	4.08	9.0	3.92	8.4	3.60
	-16.7	-17.0	10.8	4.58	10.2	4.26	9.6	3.95	9.3	3.80	9.0	3.65	8.4	3.36
	-13.7	-15.0	10.8	4.28	10.2	3.99	9.6	3.70	9.3	3.56	9.0	3.43	8.4	3.16
	-11.8	-13.0	10.8	4.02	10.2	3.75	9.6	3.48	9.3	3.35	9.0	3.23	8.4	2.98
	-9.8	-11.0	10.8	3.79	10.2	3.53	9.6	3.29	9.3	3.17	9.0	3.05	8.4	2.82
	-9.5	-10.0	10.8	3.68	10.2	3.44	9.6	3.20	9.3	3.08	9.0	2.97	8.4	2.74
	-8.5	-9.1	10.8	3.59	10.2	3.35	9.6	3.12	9.3	3.01	9.0	2.90	8.4	2.68
	-7.0	-7.6	10.8	3.45	10.2	3.23	9.6	3.01	9.3	2.90	9.0	2.79	8.4	2.58
	-5.0	-5.6	10.8	3.28	10.2	3.07	9.6	2.86	9.3	2.76	9.0	2.66	8.4	2.46
	-3.0	-3.7	10.8	3.14	10.2	2.94	9.6	2.74	9.3	2.64	9.0	2.55	8.4	2.36
	0.0	-0.7	10.8	2.93	10.2	2.75	9.6	2.57	9.3	2.48	9.0	2.39	8.4	2.22
	3.0	2.2	10.8	2.76	10.2	2.59	9.6	2.42	9.3	2.34	9.0	2.26	8.4	2.10
	5.0	4.1	10.8	2.66	10.2	2.50	9.6	2.34	9.3	2.26	9.0	2.18	8.4	2.03
	7.0	6.0	10.8	2.57	10.2	2.41	9.6	2.26	9.3	2.18	9.0	2.11	8.4	1.96
	9.0	7.9	10.8	2.48	10.2	2.33	9.6	2.18	9.3	2.11	9.0	2.04	8.4	1.90
	11.0	9.8	10.8	2.40	10.2	2.26	9.6	2.12	9.3	2.05	9.0	1.98	8.4	1.84
	13.0	11.8	10.8	2.32	10.2	2.18	9.6	2.05	9.3	1.98	9.0	1.92	8.4	1.79
	15.0	13.7	10.8	2.25	10.2	2.12	9.6	1.99	9.3	1.93	9.0	1.86	8.4	1.74
50% 7.00 kW (63)	-19.8	-20.0	9.0	4.09	8.5	3.81	8.0	3.54	7.7	3.41	7.5	3.28	7.0	3.03
	-18.8	-19.0	9.0	3.94	8.5	3.68	8.0	3.42	7.7	3.29	7.5	3.17	7.0	2.92
	-16.7	-17.0	9.0	3.68	8.5	3.43	8.0	3.20	7.7	3.08	7.5	2.96	7.0	2.74
	-13.7	-15.0	9.0	3.45	8.5	3.22	8.0	3.00	7.7	2.89	7.5	2.79	7.0	2.58
	-11.8	-13.0	9.0	3.24	8.5	3.04	8.0	2.83	7.7	2.73	7.5	2.63	7.0	2.44
	-9.8	-11.0	9.0	3.07	8.5	2.87	8.0	2.68	7.7	2.59	7.5	2.49	7.0	2.31
	-9.5	-10.0	9.0	2.98	8.5	2.80	8.0	2.61	7.7	2.52	7.5	2.43	7.0	2.25
	-8.5	-9.1	9.0	2.91	8.5	2.73	8.0	2.55	7.7	2.46	7.5	2.38	7.0	2.21
	-7.0	-7.6	9.0	2.81	8.5	2.63	8.0	2.46	7.7	2.38	7.5	2.29	7.0	2.13
	-5.0	-5.6	9.0	2.68	8.5	2.51	8.0	2.35	7.7	2.27	7.5	2.19	7.0	2.04
	-3.0	-3.7	9.0	2.56	8.5	2.41	8.0	2.25	7.7	2.18	7.5	2.10	7.0	1.96
	0.0	-0.7	9.0	2.40	8.5	2.26	8.0	2.12	7.7	2.05	7.5	1.98	7.0	1.84
	3.0	2.2	9.0	2.27	8.5	2.14	8.0	2.00	7.7	1.94	7.5	1.87	7.0	1.75
	5.0	4.1	9.0	2.19	8.5	2.06	8.0	1.94	7.7	1.87	7.5	1.81	7.0	1.69
	7.0	6.0	9.0	2.12	8.5	1.99	8.0	1.87	7.7	1.81	7.5	1.76	7.0	1.64
	9.0	7.9	9.0	2.05	8.5	1.93	8.0	1.82	7.7	1.76	7.5	1.70	7.0	1.59
	11.0	9.8	9.0	1.99	8.5	1.87	8.0	1.76	7.7	1.71	7.5	1.65	7.0	1.55
	13.0	11.8	9.0	1.93	8.5	1.82	8.0	1.71	7.7	1.66	7.5	1.60	7.0	1.50
	15.0	13.7	9.0	1.87	8.5	1.77	8.0	1.66	7.7	1.61	7.5	1.56	7.0	1.46

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5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ200AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. °CDB °CWB	Indoor air temp. °CWB											
		16.0		18.0		20.0		21.0		22.0		24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 22.40 kW (200)	-13.8 -20.0	16.0	4.84	16.0	5.05	15.9	5.26	15.9	5.36	15.9	5.46	15.8	5.67
	-13.8 -19.0	16.5	4.96	16.4	5.16	16.4	5.36	16.4	5.46	16.3	5.56	16.3	5.75
	-13.7 -17.0	17.4	5.16	17.4	5.35	17.4	5.54	17.3	5.63	17.3	5.73	17.3	5.92
	-13.7 -15.0	18.4	5.35	18.4	5.53	18.3	5.70	18.3	5.79	18.3	5.88	18.2	6.06
	-11.8 -13.0	19.4	5.51	19.3	5.68	19.3	5.85	19.3	5.94	19.2	6.02	19.2	6.19
	-9.8 -11.0	20.3	5.66	20.3	5.82	20.2	5.99	20.2	6.07	20.2	6.15	20.1	6.31
	-9.5 -10.0	20.8	5.73	20.8	5.89	20.7	6.05	20.7	6.13	20.7	6.20	20.6	6.36
	-8.5 -9.1	21.2	5.79	21.2	5.95	21.1	6.10	21.1	6.18	21.1	6.25	21.1	6.41
	-7.0 -7.6	22.0	5.89	21.9	6.04	21.9	6.19	21.8	6.26	21.8	6.33	21.8	6.48
	-5.0 -5.6	22.9	6.01	22.9	6.15	22.8	6.29	22.8	6.36	22.8	6.43	21.8	6.15
	-3.0 -3.7	23.8	6.11	23.8	6.25	23.7	6.38	23.7	6.45	23.4	6.39	21.8	5.86
	0.0 -0.7	25.3	6.26	25.2	6.39	25.0	6.44	24.2	6.19	23.4	5.94	21.8	5.45
	3.0 2.2	26.7	6.39	26.6	6.50	25.0	6.03	24.2	5.79	23.4	5.56	21.8	5.11
	5.0 4.1	27.6	6.47	26.6	6.24	25.0	5.78	24.2	5.56	23.4	5.34	21.8	4.91
90% 20.16 kW (180)	7.0 6.0	28.2	6.44	26.6	5.99	25.0	5.56	24.2	5.35	23.4	5.14	21.8	4.73
	9.0 7.9	28.2	6.19	26.6	5.77	25.0	5.35	24.2	5.15	23.4	4.95	21.8	4.56
	11.0 9.8	28.2	5.96	26.6	5.56	25.0	5.16	24.2	4.97	23.4	4.78	21.8	4.40
	13.0 11.8	28.2	5.74	26.6	5.35	25.0	4.98	24.2	4.79	23.4	4.61	21.8	4.25
	15.0 13.7	28.2	5.55	26.6	5.17	25.0	4.81	24.2	4.63	23.4	4.46	21.8	4.11
	-13.8 -20.0	15.8	5.21	15.9	5.39	15.8	5.58	15.8	5.67	15.8	5.76	15.8	5.95
	-13.8 -19.0	16.4	5.31	16.4	5.49	16.3	5.67	16.3	5.76	16.3	5.85	16.2	6.03
	-13.7 -17.0	17.4	5.49	17.3	5.66	17.3	5.83	17.3	5.92	17.2	6.00	17.2	6.17
	-13.7 -15.0	18.3	5.66	18.3	5.82	18.2	5.98	18.2	6.06	18.2	6.14	18.2	6.30
	-11.8 -13.0	19.3	5.81	19.2	5.96	19.2	6.11	19.2	6.19	19.2	6.27	19.1	6.42
	-9.8 -11.0	20.2	5.95	20.2	6.09	20.2	6.24	20.1	6.31	20.1	6.38	19.6	6.28
	-9.5 -10.0	20.7	6.01	20.7	6.15	20.6	6.29	20.6	6.36	20.6	6.43	19.6	6.10
	-8.5 -9.1	21.2	6.06	21.1	6.20	21.1	6.34	21.1	6.41	21.0	6.48	19.6	5.95
	-7.0 -7.6	21.9	6.15	21.8	6.28	21.8	6.42	21.8	6.48	21.1	6.22	19.6	5.71
	-5.0 -5.6	22.8	6.26	22.8	6.38	22.5	6.39	21.8	6.14	21.1	5.90	19.6	5.41
80% 17.92 kW (160)	-3.0 -3.7	23.8	6.35	23.7	6.47	22.5	6.09	21.8	5.85	21.1	5.62	19.6	5.17
	0.0 -0.7	25.2	6.49	23.9	6.11	22.5	5.67	21.8	5.45	21.1	5.24	19.6	4.82
	3.0 2.2	25.4	6.14	23.9	5.72	22.5	5.31	21.8	5.11	21.1	4.91	19.6	4.53
	5.0 4.1	25.4	5.89	23.9	5.49	22.5	5.10	21.8	4.91	21.1	4.72	19.6	4.35
	7.0 6.0	25.4	5.66	23.9	5.28	22.5	4.91	21.8	4.73	21.1	4.55	19.6	4.20
	9.0 7.9	25.4	5.45	23.9	5.09	22.5	4.73	21.8	4.56	21.1	4.39	19.6	4.05
	11.0 9.8	25.4	5.26	23.9	4.91	22.5	4.57	21.8	4.40	21.1	4.24	19.6	3.91
	13.0 11.8	25.4	5.07	23.9	4.73	22.5	4.41	21.8	4.25	21.1	4.09	19.6	3.78
	15.0 13.7	25.4	4.90	23.9	4.58	22.5	4.27	21.8	4.11	21.1	3.96	19.6	3.66
	-13.8 -20.0	15.8	5.57	15.8	5.73	15.8	5.90	15.8	5.98	15.7	6.06	15.7	6.22
	-13.8 -19.0	16.3	5.66	16.3	5.82	16.3	5.98	16.2	6.06	16.2	6.14	16.2	6.30
	-13.7 -17.0	17.3	5.82	17.2	5.97	17.2	6.12	17.2	6.20	17.2	6.28	17.1	6.43
	-13.7 -15.0	18.2	5.97	18.2	6.11	18.2	6.26	18.2	6.33	18.1	6.40	17.4	6.16
	-11.8 -13.0	19.2	6.11	19.2	6.24	19.1	6.38	19.1	6.44	18.7	6.31	17.4	5.78
	-9.8 -11.0	20.2	6.23	20.1	6.36	20.0	6.44	19.4	6.18	18.7	5.93	17.4	5.45

4TW32032-2

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- is shown as reference

When selecting the unit models, avoid the outdoor air temperature range shown by ■

■ dient als Verweis.

Vermeiden Sie bei der Auswahl der Gerätemodelle den als ■ markierten Temperaturbereich der Außenluft.

■ εμφανίζεται σαν τιμή αναφοράς.

Κατά την επιλογή μοντέλων μονάδων, αποφύγετε την περιοχή θερμοκρασίας εξωτερικού αέρα που εμφανίζεται στο. ■

■ se muestra a modo de referencia.

Cuando seleccione los modelos de unidad, evite el intervalo de temperaturas del aire exterior indicado mediante ■

■ est indiqué à titre de référence.

Lors de la sélection des modèles d'unité, évitez la plage de température d'air extérieur repérée par ■

■ viene mostrato come riferimento.

Nel selezionare i modelli delle unità, non considerare i valori di temperatura dell'aria esterna indicati con il colore ■

■ wordt ter referentie opgegeven

Bij selectie van de modellen dient u het gemarkeerde ■ bereik voor de buitenluchttemperatuur te vermijden.

■ приведено для справки

При выборе моделей блоков избегайте диапазон температура наружного воздуха, показанный в ■

■ referans olarak görülmektedir.

Ünite modellerini seçerken, görülen dış hava sıcaklığı aralığından kaçınınız ■
- The above table shows the average value of conditions which may occur.

Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.

Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.

La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.

Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.

La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.

De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.

Таблица расположенная выше показывает среднее значение условий, которые могут наступить.

Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ200AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp.		Indoor air temp. °CWB											
			16.0		18.0		20.0		21.0		22.0		24.0	
	°CDB	°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70% 15.68 kW (140)	-19.8	-20.0	15.8	5.93	15.7	6.07	15.7	6.22	15.7	6.29	15.7	6.36	15.3	6.25
	-18.8	-19.0	16.2	6.01	16.2	6.15	16.2	6.29	16.2	6.36	16.2	6.43	15.3	6.02
	-16.7	-17.0	17.2	6.15	17.2	6.29	17.1	6.42	16.9	6.37	16.4	6.11	15.3	5.61
	-13.7	-15.0	18.2	6.28	18.1	6.41	17.5	6.19	16.9	5.95	16.4	5.71	15.3	5.25
	-11.8	-13.0	19.1	6.40	18.6	6.27	17.5	5.81	16.9	5.59	16.4	5.37	15.3	4.93
	-9.8	-11.0	19.7	6.34	18.6	5.90	17.5	5.47	16.9	5.27	16.4	5.06	15.3	4.66
	-9.5	-10.0	19.7	6.15	18.6	5.73	17.5	5.32	16.9	5.12	16.4	4.92	15.3	4.53
	-8.5	-9.1	19.7	6.00	18.6	5.59	17.5	5.19	16.9	4.99	16.4	4.80	15.3	4.42
	-7.0	-7.6	19.7	5.75	18.6	5.36	17.5	4.99	16.9	4.80	16.4	4.62	15.3	4.26
	-5.0	-5.6	19.7	5.46	18.6	5.09	17.5	4.74	16.9	4.56	16.4	4.39	15.3	4.05
	-3.0	-3.7	19.7	5.21	18.6	4.86	17.5	4.53	16.9	4.36	16.4	4.20	15.3	3.88
	0.0	-0.7	19.7	4.86	18.6	4.54	17.5	4.23	16.9	4.08	16.4	3.93	15.3	3.63
	3.0	2.2	19.7	4.56	18.6	4.27	17.5	3.98	16.9	3.84	16.4	3.70	15.3	3.43
	5.0	4.1	19.7	4.39	18.6	4.11	17.5	3.83	16.9	3.70	16.4	3.57	15.3	3.30
	7.0	6.0	19.7	4.23	18.6	3.96	17.5	3.70	16.9	3.57	16.4	3.44	15.3	3.19
	9.0	7.9	19.7	4.08	18.6	3.82	17.5	3.57	16.9	3.45	16.4	3.33	15.3	3.09
	11.0	9.8	19.7	3.94	18.6	3.70	17.5	3.46	16.9	3.34	16.4	3.22	15.3	2.99
	13.0	11.8	19.7	3.81	18.6	3.57	17.5	3.34	16.9	3.23	16.4	3.12	15.3	2.90
	15.0	13.7	19.7	3.69	18.6	3.47	17.5	3.24	16.9	3.13	16.4	3.03	15.3	2.81
60% 13.44 kW (120)	-19.8	-20.0	15.7	6.29	15.7	6.41	15.0	6.12	14.5	5.88	14.0	5.65	13.1	5.19
	-18.8	-19.0	16.2	6.36	16.0	6.36	15.0	5.90	14.5	5.67	14.0	5.45	13.1	5.01
	-16.7	-17.0	16.9	6.36	16.0	5.92	15.0	5.50	14.5	5.29	14.0	5.08	13.1	4.68
	-13.7	-15.0	16.9	5.95	16.0	5.54	15.0	5.15	14.5	4.95	14.0	4.76	13.1	4.39
	-11.8	-13.0	16.9	5.58	16.0	5.21	15.0	4.84	14.5	4.66	14.0	4.48	13.1	4.14
	-9.8	-11.0	16.9	5.26	16.0	4.91	15.0	4.57	14.5	4.40	14.0	4.24	13.1	3.91
	-9.5	-10.0	16.9	5.12	16.0	4.78	15.0	4.45	14.5	4.28	14.0	4.13	13.1	3.81
	-8.5	-9.1	16.9	4.99	16.0	4.66	15.0	4.34	14.5	4.18	14.0	4.03	13.1	3.72
	-7.0	-7.6	16.9	4.80	16.0	4.48	15.0	4.18	14.5	4.03	14.0	3.88	13.1	3.59
	-5.0	-5.6	16.9	4.56	16.0	4.27	15.0	3.98	14.5	3.84	14.0	3.70	13.1	3.42
	-3.0	-3.7	16.9	4.36	16.0	4.08	15.0	3.81	14.5	3.67	14.0	3.54	13.1	3.28
	0.0	-0.7	16.9	4.08	16.0	3.82	15.0	3.57	14.5	3.44	14.0	3.32	13.1	3.08
	3.0	2.2	16.9	3.84	16.0	3.60	15.0	3.37	14.5	3.25	14.0	3.14	13.1	2.92
	5.0	4.1	16.9	3.70	16.0	3.47	15.0	3.25	14.5	3.14	14.0	3.03	13.1	2.82
	7.0	6.0	16.9	3.57	16.0	3.35	15.0	3.14	14.5	3.03	14.0	2.93	13.1	2.72
	9.0	7.9	16.9	3.45	16.0	3.24	15.0	3.04	14.5	2.93	14.0	2.84	13.1	2.64
	11.0	9.8	16.9	3.34	16.0	3.14	15.0	2.94	14.5	2.84	14.0	2.75	13.1	2.56
	13.0	11.8	16.9	3.23	16.0	3.04	15.0	2.85	14.5	2.76	14.0	2.66	13.1	2.48
	15.0	13.7	16.9	3.13	16.0	2.95	15.0	2.77	14.5	2.68	14.0	2.59	13.1	2.41
50% 11.20 kW (100)	-19.8	-20.0	14.1	5.68	13.3	5.30	12.5	4.93	12.1	4.74	11.7	4.56	10.9	4.21
	-18.8	-19.0	14.1	5.48	13.3	5.11	12.5	4.75	12.1	4.58	11.7	4.40	10.9	4.06
	-16.7	-17.0	14.1	5.11	13.3	4.77	12.5	4.44	12.1	4.28	11.7	4.12	10.9	3.81
	-13.7	-15.0	14.1	4.79	13.3	4.48	12.5	4.17	12.1	4.02	11.7	3.87	10.9	3.58
	-11.8	-13.0	14.1	4.51	13.3	4.22	12.5	3.94	12.1	3.80	11.7	3.66	10.9	3.39
	-9.8	-11.0	14.1	4.26	13.3	3.99	12.5	3.73	12.1	3.60	11.7	3.47	10.9	3.21
	-9.5	-10.0	14.1	4.15	13.3	3.89	12.5	3.63	12.1	3.50	11.7	3.38	10.9	3.13
	-8.5	-9.1	14.1	4.05	13.3	3.80	12.5	3.55	12.1	3.43	11.7	3.30	10.9	3.07
	-7.0	-7.6	14.1	3.90	13.3	3.66	12.5	3.42	12.1	3.30	11.7	3.19	10.9	2.96
	-5.0	-5.6	14.1	3.72	13.3	3.49	12.5	3.26	12.1	3.15	11.7	3.05	10.9	2.83
	-3.0	-3.7	14.1	3.56	13.3	3.34	12.5	3.13	12.1	3.03	11.7	2.92	10.9	2.72
	0.0	-0.7	14.1	3.34	13.3	3.14	12.5	2.94	12.1	2.85	11.7	2.75	10.9	2.56
	3.0	2.2	14.1	3.15	13.3	2.97	12.5	2.79	12.1	2.70	11.7	2.61	10.9	2.43
	5.0	4.1	14.1	3.05	13.3	2.87	12.5	2.69	12.1	2.61	11.7	2.52	10.9	2.35
	7.0	6.0	14.1	2.94	13.3	2.77	12.5	2.61	12.1	2.52	11.7	2.44	10.9	2.28
	9.0	7.9	14.1	2.85	13.3	2.69	12.5	2.52	12.1	2.45	11.7	2.37	10.9	2.21
	11.0	9.8	14.1	2.76	13.3	2.61	12.5	2.45	12.1	2.37	11.7	2.30	10.9	2.15
	13.0	11.8	14.1	2.68	13.3	2.53	12.5	2.38	12.1	2.30	11.7	2.23	10.9	2.09
	15.0	13.7	14.1	2.60	13.3	2.46	12.5	2.31	12.1	2.24	11.7	2.17	10.9	2.03

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5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ250AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp. °CDB °CWB	Indoor air temp. °CWB											
		16.0		18.0		20.0		21.0		22.0		24.0	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
70% 19.60 kW (175)	-19.8 -20.0	19.8	8.56	19.7	8.76	19.7	8.97	19.7	9.07	19.7	9.18	19.2	9.08
	-18.8 -19.0	20.1	8.63	20.1	8.83	20.0	9.03	20.0	9.13	20.0	9.24	19.2	8.89
	-16.7 -17.0	20.9	8.77	20.9	8.97	20.8	9.16	20.8	9.26	20.6	9.25	19.2	8.48
	-13.7 -15.0	21.8	8.92	21.7	9.11	21.7	9.30	21.3	9.16	20.6	8.79	19.2	8.06
	-11.8 -13.0	22.7	9.07	22.7	9.25	22.1	9.03	21.3	8.68	20.6	8.33	19.2	7.64
	-9.8 -11.0	23.8	9.22	23.5	9.21	22.1	8.53	21.3	8.20	20.6	7.87	19.2	7.23
	-9.5 -10.0	24.4	9.30	23.5	8.94	22.1	8.28	21.3	7.96	20.6	7.65	19.2	7.03
	-8.5 -9.1	24.9	9.35	23.5	8.70	22.1	8.06	21.3	7.75	20.6	7.45	19.2	6.85
	-7.0 -7.6	24.9	8.93	23.5	8.31	22.1	7.71	21.3	7.42	20.6	7.13	19.2	6.56
	-5.0 -5.6	24.9	8.39	23.5	7.82	22.1	7.26	21.3	6.98	20.6	6.71	19.2	6.19
	-3.0 -3.7	24.9	7.90	23.5	7.37	22.1	6.85	21.3	6.59	20.6	6.34	19.2	5.85
	0.0 -0.7	24.9	7.19	23.5	6.72	22.1	6.25	21.3	6.02	20.6	5.80	19.2	5.36
	3.0 2.2	24.9	6.57	23.5	6.15	22.1	5.73	21.3	5.52	20.6	5.32	19.2	4.92
	5.0 4.1	24.9	6.20	23.5	5.80	22.1	5.42	21.3	5.22	20.6	5.03	19.2	4.66
	7.0 6.0	24.9	5.86	23.5	5.49	22.1	5.12	21.3	4.94	20.6	4.77	19.2	4.42
60% 16.80 kW (150)	9.0 7.9	24.9	5.54	23.5	5.19	22.1	4.85	21.3	4.68	20.6	4.52	19.2	4.19
	11.0 9.8	24.9	5.24	23.5	4.91	22.1	4.60	21.3	4.44	20.6	4.29	19.2	3.98
	13.0 11.8	24.9	4.95	23.5	4.65	22.1	4.35	21.3	4.21	20.6	4.06	19.2	3.78
	15.0 13.7	24.9	4.69	23.5	4.41	22.1	4.13	21.3	4.00	20.6	3.86	19.2	3.60
	-19.8 -20.0	19.7	9.08	19.6	9.25	18.9	8.90	18.3	8.55	17.7	8.21	16.5	7.53
	-18.8 -19.0	20.0	9.14	20.0	9.31	18.9	8.71	18.3	8.37	17.7	8.03	16.5	7.37
	-16.7 -17.0	20.8	9.26	20.1	8.97	18.9	8.31	18.3	7.99	17.7	7.67	16.5	7.05
	-13.7 -15.0	21.3	9.16	20.1	8.52	18.9	7.90	18.3	7.60	17.7	7.30	16.5	6.71
	-11.8 -13.0	21.3	8.67	20.1	8.07	18.9	7.49	18.3	7.21	17.7	6.93	16.5	6.38
	-9.8 -11.0	21.3	8.19	20.1	7.63	18.9	7.09	18.3	6.82	17.7	6.56	16.5	6.05
	-9.5 -10.0	21.3	7.96	20.1	7.42	18.9	6.89	18.3	6.64	17.7	6.38	16.5	5.88
	-8.5 -9.1	21.3	7.75	20.1	7.23	18.9	6.72	18.3	6.47	17.7	6.22	16.5	5.74
	-7.0 -7.6	21.3	7.41	20.1	6.92	18.9	6.43	18.3	6.20	17.7	5.96	16.5	5.51
	-5.0 -5.6	21.3	6.98	20.1	6.52	18.9	6.07	18.3	5.85	17.7	5.63	16.5	5.21
	-3.0 -3.7	21.3	6.59	20.1	6.16	18.9	5.74	18.3	5.54	17.7	5.33	16.5	4.93
50% 14.00 kW (125)	0.0 -0.7	21.3	6.02	20.1	5.64	18.9	5.26	18.3	5.08	17.7	4.89	16.5	4.53
	3.0 2.2	21.3	5.52	20.1	5.18	18.9	4.84	18.3	4.67	17.7	4.51	16.5	4.18
	5.0 4.1	21.3	5.22	20.1	4.90	18.9	4.58	18.3	4.43	17.7	4.27	16.5	3.97
	7.0 6.0	21.3	4.94	20.1	4.64	18.9	4.34	18.3	4.20	17.7	4.06	16.5	3.77
	9.0 7.9	21.3	4.68	20.1	4.40	18.9	4.12	18.3	3.99	17.7	3.85	16.5	3.59
	11.0 9.8	21.3	4.44	20.1	4.18	18.9	3.92	18.3	3.79	17.7	3.66	16.5	3.42
	13.0 11.8	21.3	4.20	20.1	3.96	18.9	3.72	18.3	3.60	17.7	3.48	16.5	3.25
	15.0 13.7	21.3	4.00	20.1	3.76	18.9	3.54	18.3	3.43	17.7	3.32	16.5	3.10
	-19.8 -20.0	17.8	8.26	16.8	7.69	15.8	7.14	15.2	6.88	14.7	6.61	13.7	6.09
	-18.8 -19.0	17.8	8.08	16.8	7.53	15.8	7.00	15.2	6.73	14.7	6.47	13.7	5.97
	-16.7 -17.0	17.8	7.71	16.8	7.19	15.8	6.69	15.2	6.44	14.7	6.20	13.7	5.72
	-13.7 -15.0	17.8	7.34	16.8	6.85	15.8	6.37	15.2	6.14	14.7	5.91	13.7	5.46
	-11.8 -13.0	17.8	6.97	16.8	6.51	15.8	6.06	15.2	5.84	14.7	5.62	13.7	5.20
	-9.8 -11.0	17.8	6.60	16.8	6.17	15.8	5.75	15.2	5.54	14.7	5.34	13.7	4.94
	-9.5 -10.0	17.8	6.42	16.8	6.00	15.8	5.60	15.2	5.40	14.7	5.20	13.7	4.81
	-8.5 -9.1	17.8	6.26	16.8	5.86	15.8	5.46	15.2	5.27	14.7	5.08	13.7	4.70
	-7.0 -7.6	17.8	6.00	16.8	5.62	15.8	5.24	15.2	5.06	14.7	4.88	13.7	4.52
	-5.0 -5.6	17.8	5.66	16.8	5.31	15.8	4.96	15.2	4.79	14.7	4.62	13.7	4.28
	-3.0 -3.7	17.8	5.36	16.8	5.03	15.8	4.70	15.2	4.54	14.7	4.38	13.7	4.07
	0.0 -0.7	17.8	4.92	16.8	4.62	15.8	4.33	15.2	4.18	14.7	4.04	13.7	3.76
	3.0 2.2	17.8	4.53	16.8	4.26	15.8	3.99	15.2	3.86	14.7	3.73	13.7	3.48
	5.0 4.1	17.8	4.30	16.8	4.04	15.8	3.79	15.2	3.67	14.7	3.55	13.7	3.31
	7.0 6.0	17.8	4.08	16.8	3.84	15.8	3.61	15.2	3.49	14.7	3.38	13.7	3.16
	9.0 7.9	17.8	3.87	16.8	3.65	15.8	3.43	15.2	3.33	14.7	3.22	13.7	3.01
	11.0 9.8	17.8	3.68	16.8	3.47	15.8	3.27	15.2	3.17	14.7	3.07	13.7	2.87
	13.0 11.8	17.8	3.50	16.8	3.30	15.8	3.11	15.2	3.02	14.7	2.92	13.7	2.74
	15.0 13.7	17.8	3.33	16.8	3.15	15.8	2.97	15.2	2.88	14.7	2.79	13.7	2.62

4TW32032-2

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - примечания - NOTLAR

- is shown as reference

When selecting the unit models, avoid the outdoor air temperature range shown by ■

■ dient als Verweis.

Vermeiden Sie bei der Auswahl der Gerätemodelle den als ■ markierten Temperaturbereich der Außenluft.

■ εμφανίζεται σαν τιμή αναφοράς.

Κατά την επιλογή μοντέλων μονάδων, αποφύγετε την περιοχή θερμοκρασίας εξωτερικού αέρα που εμφανίζεται στο. ■

■ se muestra a modo de referencia.

Cuando seleccione los modelos de unidad, evite el intervalo de temperaturas del aire exterior indicado mediante ■

■ est indiqué à titre de référence.

Lors de la sélection des modèles d'unité, évitez la plage de température d'air extérieur repérée par ■

■ viene mostrato come riferimento.

Nel selezionare i modelli delle unità, non considerare i valori di temperatura dell'aria esterna indicati con il colore ■

■ wordt ter referentie opgegeven

Bij selectie van de modellen dient u het gemarkeerde ■ bereik voor de buitenluchttemperatuur te vermijden.

■ приведено для справки

При выборе моделей блоков избегайте диапазон температура наружного воздуха, показанный в ■

■ referans olarak görülmektedir.

Ünite modellerini seçerken, görülen dış hava sıcaklığı aralığından kaçının ■
- The above table shows the average value of conditions which may occur.

Die obige Tabelle zeigt den Durchschnittswert der Bedingungen, die auftreten können.

Στον παραπάνω πίνακα αναγράφεται η μέση τιμή για συνθήκες που μπορεί να προκύψουν.

La tabla de arriba muestra el valor medio de condiciones que pueden ocurrir.

Le tableau ci-dessus donne la valeur moyenne pour des conditions qui peuvent survenir.

La tabella in alto mostra il valore delle condizioni medie che si possono riscontrare.

De tabel hierboven geeft de gemiddelde waarde aan van situaties die kunnen voorvallen.

Таблица расположенная выше показывает среднее значение условий, которые могут наступить.

Yukarıdaki tablo meydana gelebilecek koşulların ortalama değerini göstermektedir.

5 Capacity tables

5 - 2 Heating Capacity Tables

ERQ250AW1

Heating

TC: Total capacity; kW; PI: Power Input; kW (Comp. + Outdoor fan motor)

Combination % kW (Capacity index)	Outdoor air temp.		Indoor air temp. °CWB											
			16.0		18.0		20.0		21.0		22.0		24.0	
	°CDB	°CWB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
100% 28.00 kW (250)	-19.8	-20.0	20.1	7.00	20.0	7.29	20.0	7.59	19.9	7.74	19.9	7.88	19.8	8.18
	-18.8	-19.0	20.4	7.09	20.4	7.38	20.3	7.67	20.3	7.82	20.2	7.97	20.2	8.26
	-16.7	-17.0	21.2	7.29	21.1	7.57	21.1	7.85	21.0	7.99	21.0	8.13	21.0	8.41
	-13.7	-15.0	22.1	7.50	22.0	7.77	21.9	8.04	21.9	8.18	21.9	8.31	21.8	8.58
	-11.8	-13.0	23.0	7.72	23.0	7.97	22.9	8.23	22.9	8.36	22.9	8.49	22.8	8.75
	-9.8	-11.0	24.1	7.93	24.0	8.18	24.0	8.42	24.0	8.55	23.9	8.67	23.9	8.91
	-9.5	-10.0	24.7	8.04	24.6	8.28	24.6	8.52	24.5	8.64	24.5	8.76	24.4	9.00
	-8.5	-9.1	25.2	8.13	25.1	8.37	25.1	8.60	25.1	8.72	25.0	8.84	25.0	9.07
	-7.0	-7.6	26.1	8.29	26.1	8.52	26.0	8.74	26.0	8.86	26.0	8.97	25.9	9.20
	-5.0	-5.6	27.5	8.50	27.4	8.71	27.4	8.93	27.3	9.03	27.3	9.14	27.2	9.36
	-3.0	-3.7	28.8	8.69	28.8	8.89	28.7	9.10	28.7	9.20	28.7	9.30	27.5	8.91
	0.0	-0.7	31.1	8.97	31.1	9.16	31.0	9.35	30.5	9.20	29.5	8.82	27.5	8.09
	3.0	2.2	33.6	9.23	33.5	9.40	31.5	8.70	30.5	8.36	29.5	8.03	27.5	7.37
	5.0	4.1	35.3	9.40	33.5	8.83	31.5	8.18	30.5	7.87	29.5	7.56	27.5	6.95
	7.0	6.0	35.5	8.92	33.5	8.30	31.5	7.70	30.5	7.41	29.5	7.12	27.5	6.55
	9.0	7.9	35.5	8.38	33.5	7.81	31.5	7.25	30.5	6.98	29.5	6.71	27.5	6.18
	11.0	9.8	35.5	7.89	33.5	7.36	31.5	6.84	30.5	6.58	29.5	6.33	27.5	5.84
	13.0	11.8	35.5	7.41	33.5	6.92	31.5	6.44	30.5	6.20	29.5	5.97	27.5	5.51
	15.0	13.7	35.5	6.99	33.5	6.53	31.5	6.08	30.5	5.86	29.5	5.64	27.5	5.22
90% 25.20 kW (225)	-19.8	-20.0	20.0	7.52	19.9	7.78	19.9	8.05	19.8	8.18	19.8	8.32	19.8	8.58
	-18.8	-19.0	20.3	7.60	20.3	7.87	20.2	8.13	20.2	8.26	20.2	8.39	20.1	8.65
	-16.7	-17.0	21.1	7.79	21.0	8.04	21.0	8.29	21.0	8.42	20.9	8.54	20.9	8.79
	-13.7	-15.0	22.0	7.98	21.9	8.22	21.9	8.46	21.8	8.58	21.8	8.70	21.8	8.94
	-11.8	-13.0	22.9	8.17	22.9	8.40	22.8	8.63	22.8	8.75	22.8	8.86	22.7	9.09
	-9.8	-11.0	24.0	8.36	24.0	8.58	23.9	8.80	23.9	8.91	23.9	9.03	23.8	9.25
	-9.5	-10.0	24.6	8.46	24.5	8.68	24.5	8.89	24.4	9.00	24.4	9.11	24.4	9.32
	-8.5	-9.1	25.1	8.55	25.1	8.76	25.0	8.97	25.0	9.07	25.0	9.18	24.7	9.27
	-7.0	-7.6	26.0	8.69	26.0	8.89	25.9	9.10	25.9	9.20	25.9	9.30	24.7	8.85
	-5.0	-5.6	27.4	8.88	27.3	9.07	27.3	9.26	27.2	9.36	26.5	9.07	24.7	8.32
	-3.0	-3.7	28.7	9.05	28.7	9.23	28.4	9.27	27.4	8.90	26.5	8.54	24.7	7.84
	0.0	-0.7	31.1	9.31	30.2	9.08	28.4	8.41	27.4	8.08	26.5	7.76	24.7	7.13
	3.0	2.2	32.0	8.87	30.2	8.26	28.4	7.66	27.4	7.37	26.5	7.08	24.7	6.52
	5.0	4.1	32.0	8.34	30.2	7.77	28.4	7.22	27.4	6.94	26.5	6.68	24.7	6.15
	7.0	6.0	32.0	7.84	30.2	7.32	28.4	6.80	27.4	6.55	26.5	6.30	24.7	5.81
	9.0	7.9	32.0	7.39	30.2	6.89	28.4	6.41	27.4	6.18	26.5	5.95	24.7	5.49
	11.0	9.8	32.0	6.96	30.2	6.50	28.4	6.06	27.4	5.84	26.5	5.62	24.7	5.20
	13.0	11.8	32.0	6.55	30.2	6.13	28.4	5.71	27.4	5.51	26.5	5.31	24.7	4.91
	15.0	13.7	32.0	6.19	30.2	5.79	28.4	5.41	27.4	5.22	26.5	5.03	24.7	4.66
80% 22.40 kW (200)	-19.8	-20.0	19.9	8.04	19.8	8.27	19.8	8.51	19.8	8.63	19.7	8.75	19.7	8.98
	-18.8	-19.0	20.2	8.11	20.2	8.35	20.1	8.58	20.1	8.70	20.1	8.81	20.0	9.05
	-16.7	-17.0	21.0	8.28	20.9	8.50	20.9	8.73	20.9	8.84	20.9	8.95	20.8	9.17
	-13.7	-15.0	21.9	8.45	21.8	8.66	21.8	8.88	21.8	8.98	21.7	9.09	21.7	9.31
	-11.8	-13.0	22.8	8.62	22.8	8.83	22.7	9.03	22.7	9.13	22.7	9.24	22.0	8.99
	-9.8	-11.0	23.9	8.79	23.9	8.99	23.8	9.19	23.8	9.28	23.6	9.26	22.0	8.49
	-9.5	-10.0	24.5	8.88	24.4	9.07	24.4	9.26	24.4	9.36	23.6	8.99	22.0	8.24
	-8.5	-9.1	25.0	8.96	25.0	9.15	24.9	9.33	24.4	9.12	23.6	8.75	22.0	8.02
	-7.0	-7.6	25.9	9.09	25.9	9.27	25.2	9.07	24.4	8.71	23.6	8.36	22.0	7.67
	-5.0	-5.6	27.3	9.25	26.8	9.20	25.2	8.52	24.4	8.19	23.6	7.86	22.0	7.22
	-3.0	-3.7	28.4	9.30	26.8	8.66	25.2	8.02	24.4	7.72	23.6	7.41	22.0	6.82
	0.0	-0.7	28.4	8.44	26.8	7.86	25.2	7.30	24.4	7.03	23.6	6.75	22.0	6.22
	3.0	2.2	28.4	7.69	26.8	7.17	25.2	6.67	24.4	6.42	23.6	6.18	22.0	5.70
	5.0	4.1	28.4	7.24	26.8	6.76	25.2	6.29	24.4	6.06	23.6	5.84	22.0	5.39
	7.0	6.0	28.4	6.82	26.8	6.38	25.2	5.94	24.4	5.73	23.6	5.52	22.0	5.10
	9.0	7.9	28.4	6.44	26.8	6.02	25.2	5.61	24.4	5.41	23.6	5.22	22.0	4.83
	11.0	9.8	28.4	6.08	26.8	5.69	25.2	5.31	24.4	5.12	23.6	4.94	22.0	4.58
	13.0	11.8	28.4	5.73	26.8	5.37	25.2	5.02	24.4	4.84	23.6	4.67	22.0	4.33
	15.0	13.7	28.4	5.42	26.8	5.09	25.2	4.76	24.4	4.59	23.6	4.43	22.0	4.12

4TW32032-2

5 Capacity tables

5 - 3 Integrated Heating Capacity Correction Factor

ERQ-AW1

Integrated heating capacity coefficient

The heating capacity tables do not take account of the reduction in capacity, when frost has accumulated or while the defrosting operation is in progress. The capacity values, which take these factors into account, in other words, the integrated heating capacity values, can be calculated as follows

Formula:

Integrated heating capacity = A

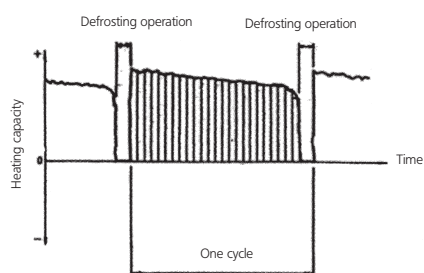
Value given in table of capacity characteristics = B

Integrating correction factor for frost accumulation (kW) = C

$A = B \times C$

Correction factor for finding integrated heating capacity

Inlet port temperature of heat exchanger (°C/RH 85%)	-7	-5	-3	0	3	5	7
Integrating correction factor for frost accumulation	0,96	0,93	0,87	0,81	0,83	0,89	1,0



Note:

1. The figures shows that the integrated heating capacity expresses the integrated capacity for a single cycle (from defrost operation to defrost operation) in terms of time.

Please note that, when there is an accumulation of snow against the outside surface of the outdoor unit heat exchanger, there will always be a temporary reduction in capacity, although this will of course vary in degree in accordance with a number of other factors, such as the outdoor temperature (°CDB), relative humidity (RH) and the amount of frosting which occurs.

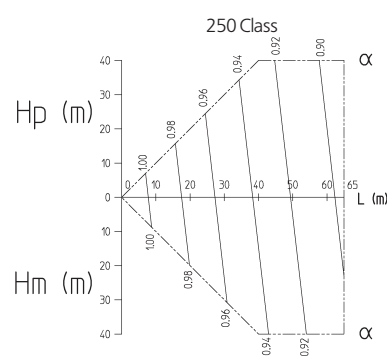
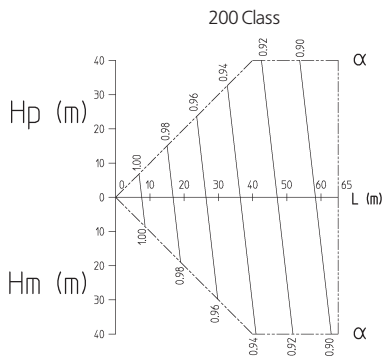
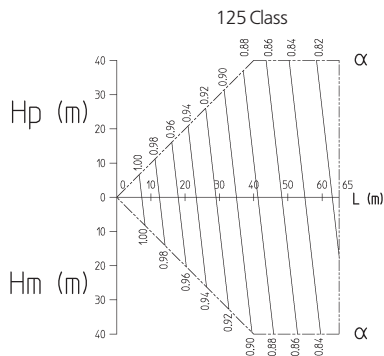
3TW27232-7

5 Capacity tables

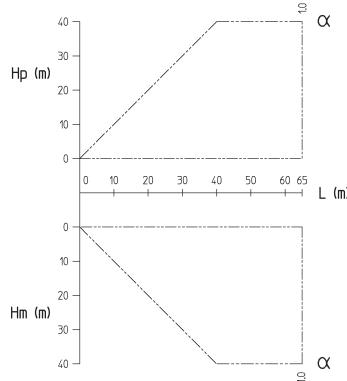
5 - 4 Capacity Correction Factor

ERQ-AW1

Correction factor for piping length (α) Cooling



Correction factor for piping length (α) Heating 125,200,250Class



Explanation of symbols:

Hp: Level difference between air handling unit and outdoor unit when air handling unit is installed below the outdoor unit
Hm: Level difference between air handling unit and outdoor unit when air handling unit is installed above the outdoor unit
L: Equivalent piping length (m)
α: Capacity correction factor

Diameter of pipes:

Outdoor unit class	Gas	Liquid
125	φ 15.9	φ 9.5
200	φ 19.1	φ 9.5
250	φ 22.2	φ 9.5

Notes:

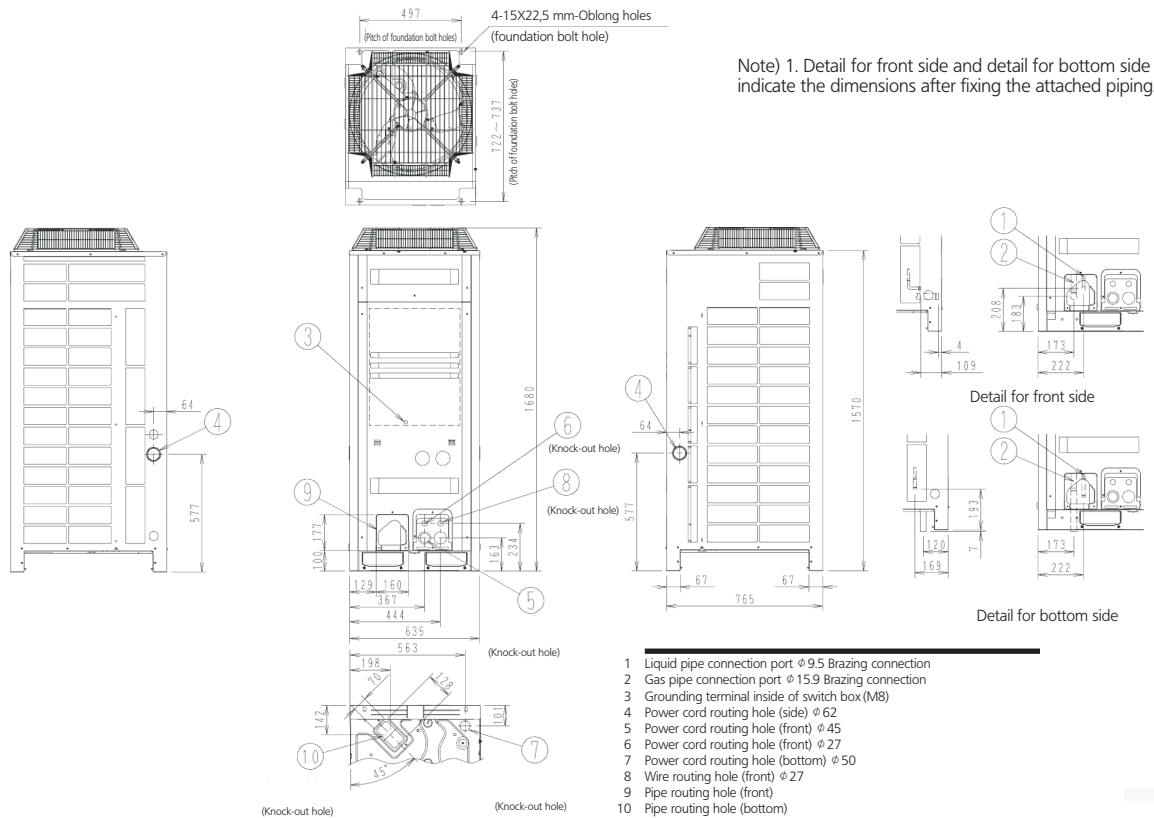
- These figures illustrate the correction factor for piping length of the system at maximum load under standard conditions.
Under partial load conditions there is only minor deviation from the correction factor shown in the figures above.
- Method of calculating cooling capacity (max. capacity)
Cooling capacity = Cooling capacity obtained from the cooling capacity characteristics table X Capacity correction factor
- Method of calculating heating capacity (max. capacity)
Heating capacity = Heating capacity obtained from the heating capacity characteristics table X Capacity correction factor

3TW32032-2

6 Dimensional drawings

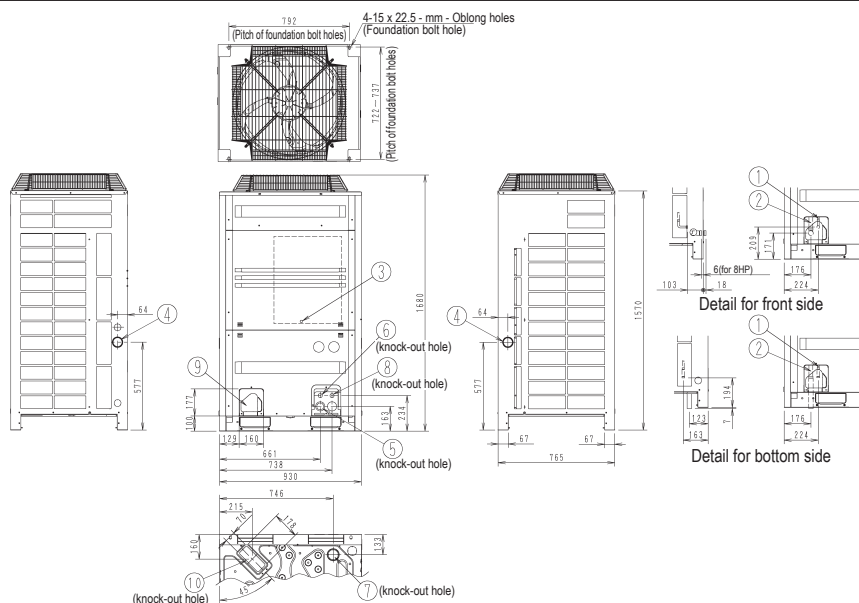
6 - 1 Dimensional Drawings

ERQ125AW1



3D051448F

ERQ200,250AW1B



3D051449P

No.	Parts name	Remarks
1	Liquid pipe connection port	See note 2
2	Gas pipe connection port	See note 2
3	Grounding terminal	Inside of switch box (M8)
4	Power cord routing hole (side)	ϕ 62
5	Power cord routing hole (front)	ϕ 45
6	Power cord routing hole (front)	ϕ 27
7	Power cord routing hole (bottom)	ϕ 66.5
8	Wire routing hole (front)	ϕ 27
9	Pipe routing hole (front)	
10	Pipe routing hole (bottom)	

NOTES

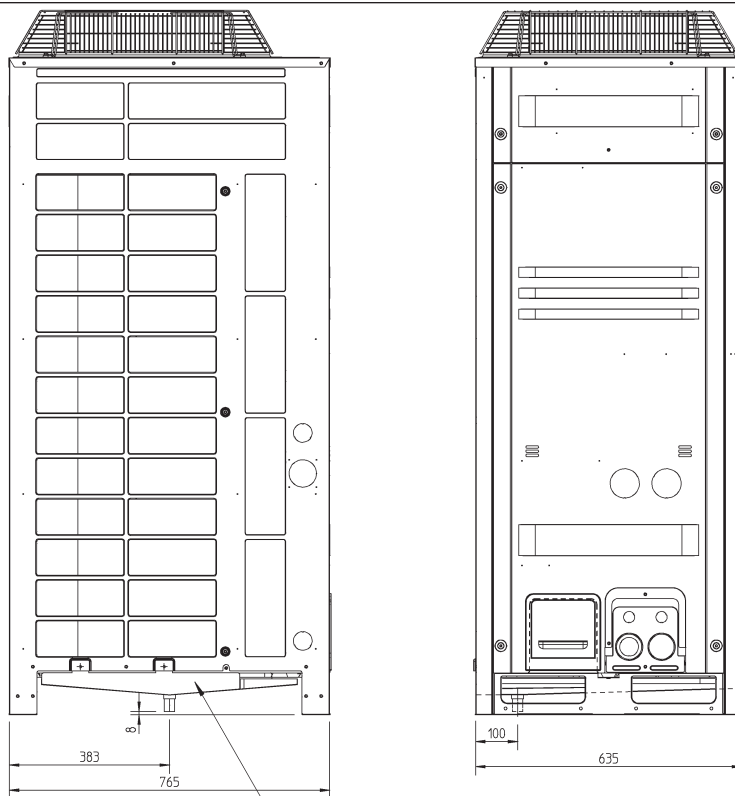
- Detail for front side and detail for bottom side indicate the dimensions after fixing the attached piping.
- Gas pipe (Heat pump type)
 - ϕ 19.1 Brazing connection 8PY1, YL, 8PAY1(S), Y6, YL, YLD(9), 200KY1, 8PTLK, 8PYNK, 8PRY6 type RQYQ8PY1, PY1B, RXYQ8PYLT, RXYQ8PTLT, RZQS180 • 200AY1, RZQ180 • 200LY1
 - ϕ 22.2 Brazing connection 10PY1, YL, 10PAY1(S), Y6, YL, YLD, 10PRY6 type RQYQ10PY1, PY1B, RXYQ10PYLT, RXYQ10PTLT, RZQ250LY1
 - ϕ 28.6 Brazing connection RQYQ12PY1, PY1B
- Liquid pipe (Heat pump type)
 - ϕ 9.5 Brazing connection 8 • 10PY1, YL, 8 • 10PAY1(S), Y6, YL, YLD(9), 200KY1, 8PTLK, 8PYNK, 8 • 10PRY6 type RQYQ8 • 10PY1, PY1B, RXYQ8 • 10PYLT, RXYQ8 • 10PTLT, RZQS180 • 200AY1, RZQ180 • 200 • 250LY1
 - ϕ 12.7 Brazing connection RQYQ12PY1, PY1B

6 Dimensional drawings

6 - 2 Dimensional Drawings with Accessories

6

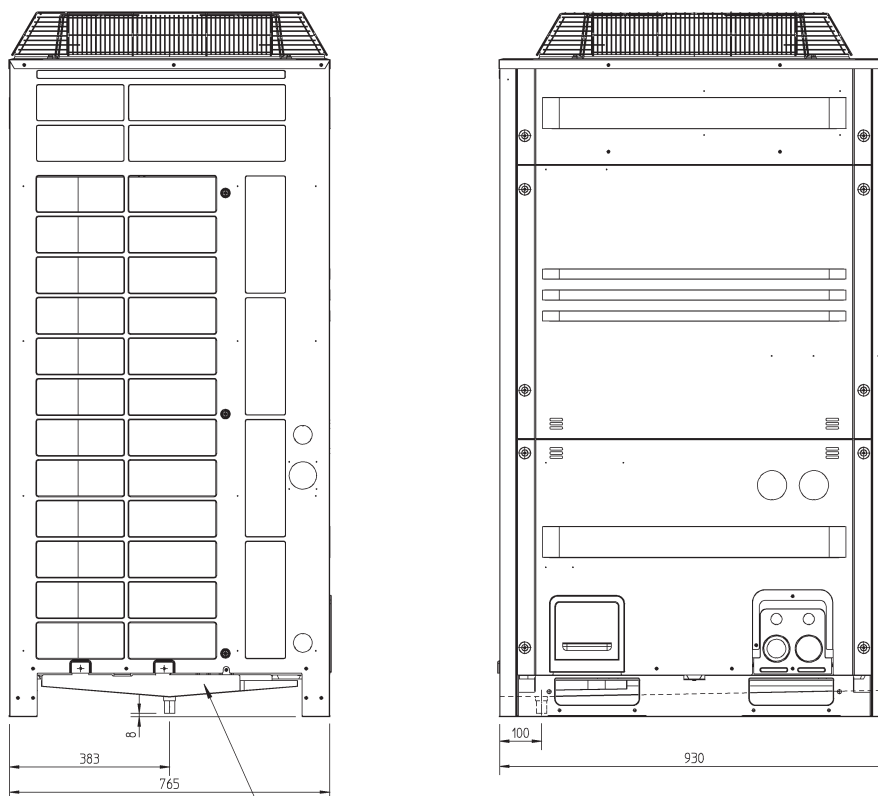
ERQ125AW1



① Central drain pan kit (KWC26B160)

3TW27234-1

ERQ200,250AW1



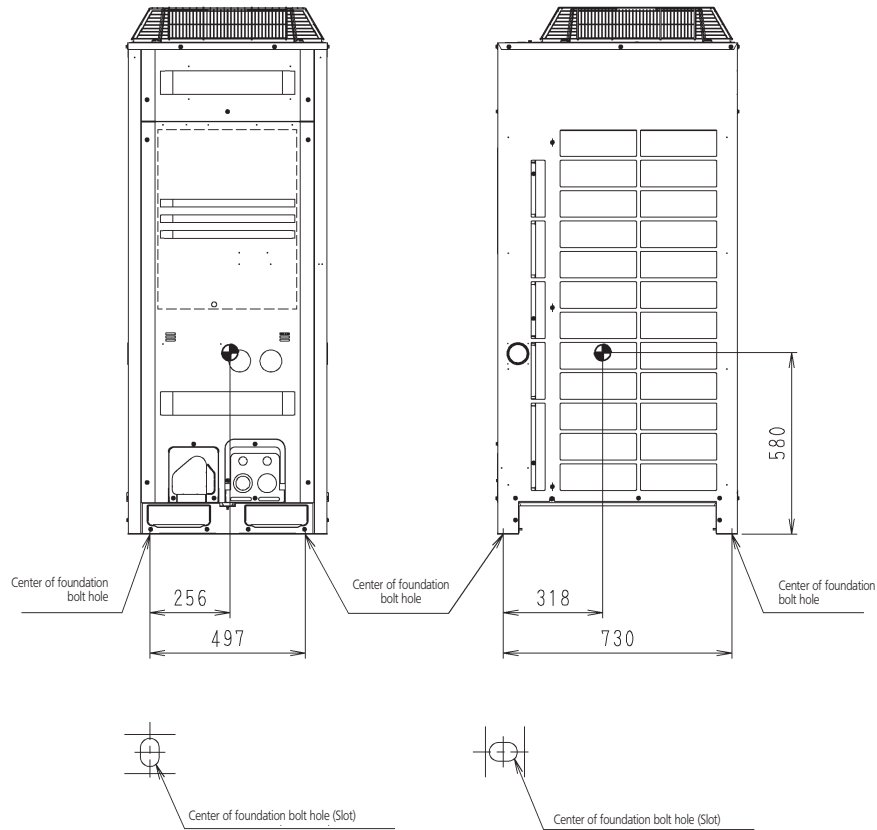
①

3TW27244-1

7 Centre of gravity

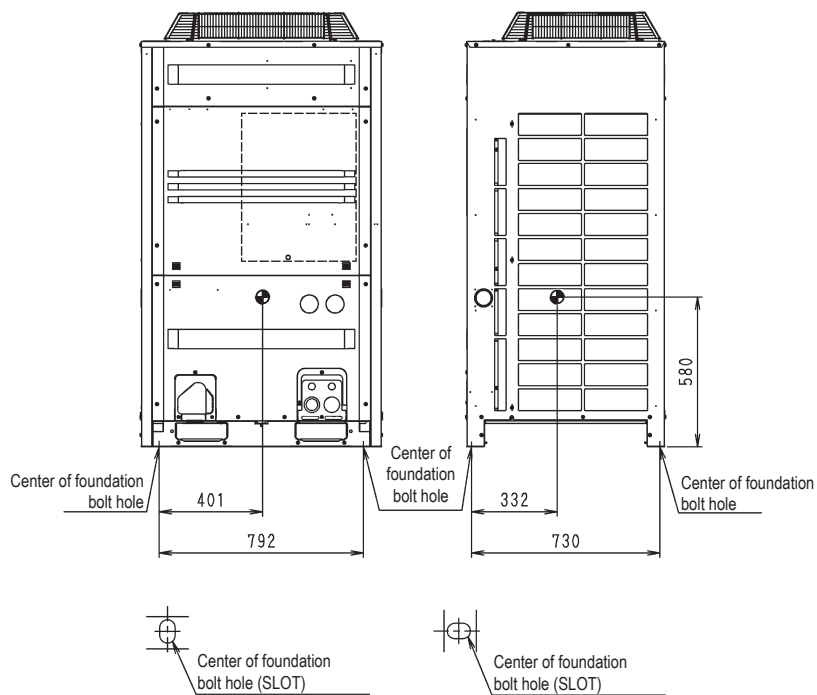
7 - 1 Centre of Gravity

ERQ125AW1



4D052145E

ERQ200AW1

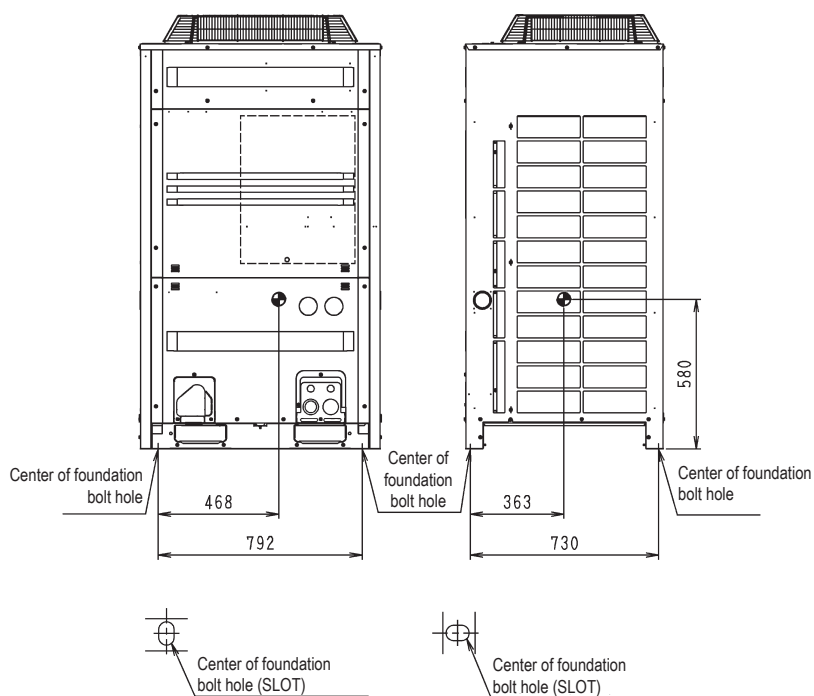


4D052146P

7 Centre of gravity

7 - 1 Centre of Gravity

ERQ250AW1

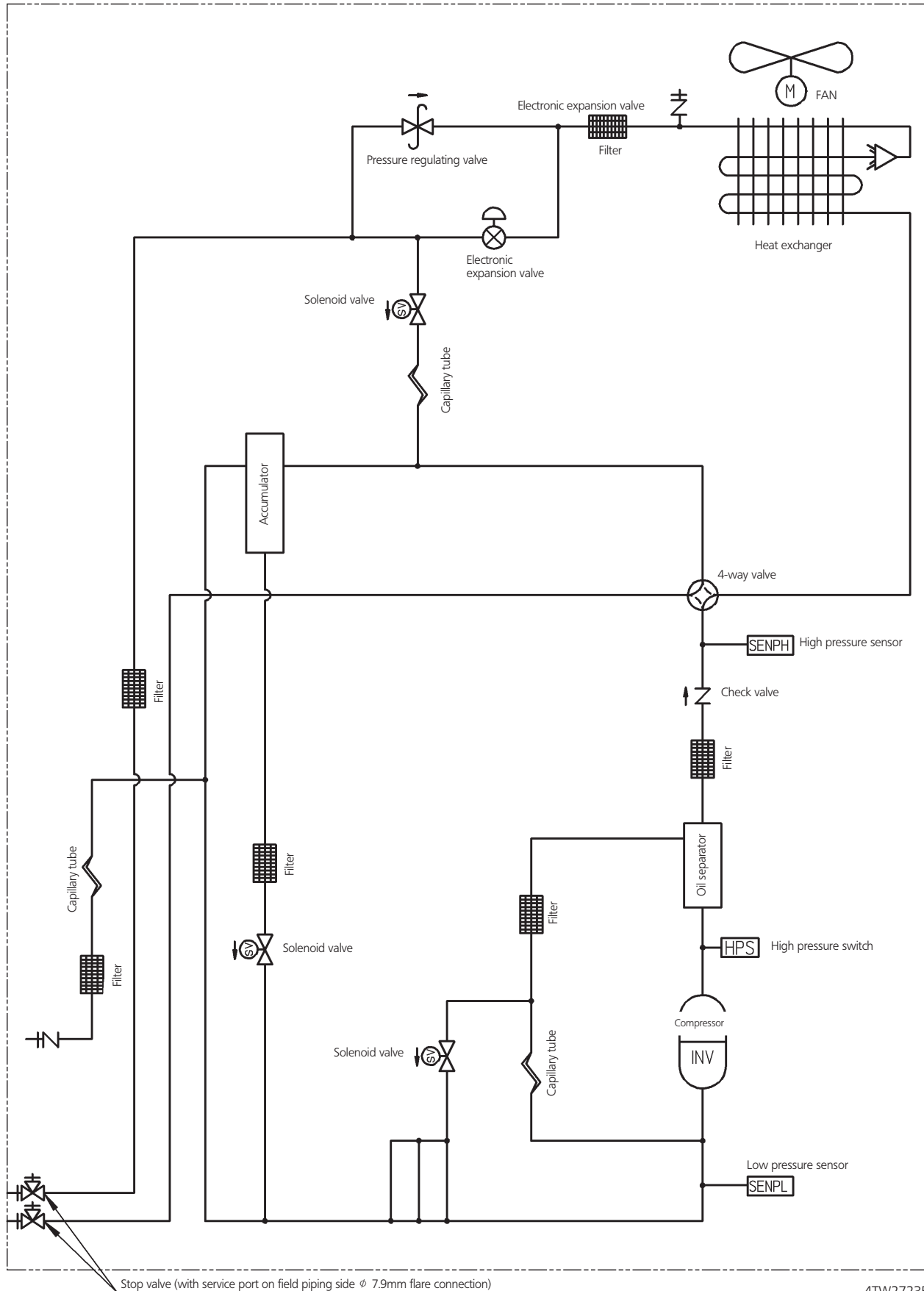


4D052147N

8 Piping diagrams

8 - 1 Piping Diagrams

ERQ125AW1



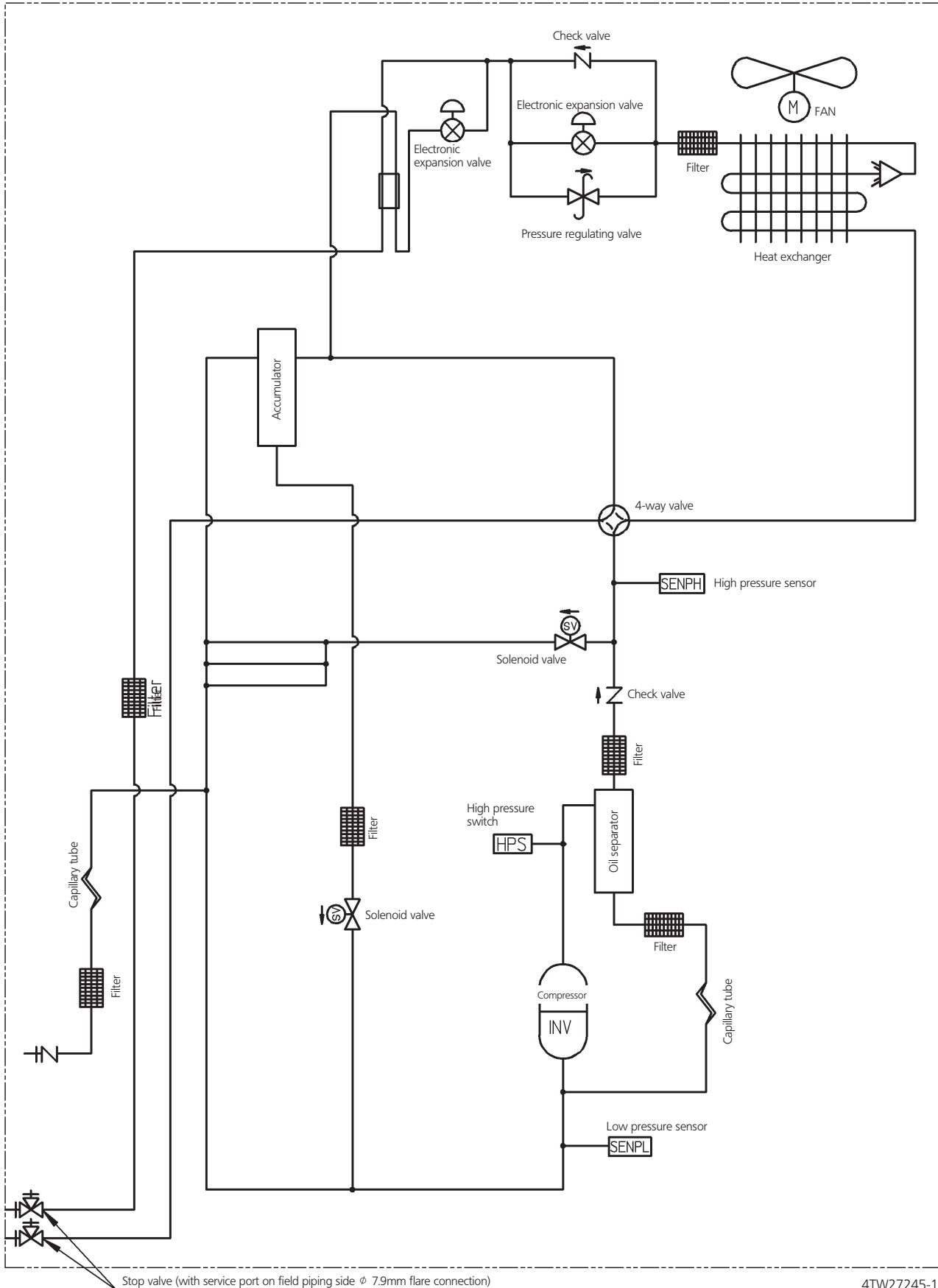
Stop valve (with service port on field piping side ϕ 7.9mm flare connection)

4TW27235-1

8 Piping diagrams

8 - 1 Piping Diagrams

ERQ200AW1

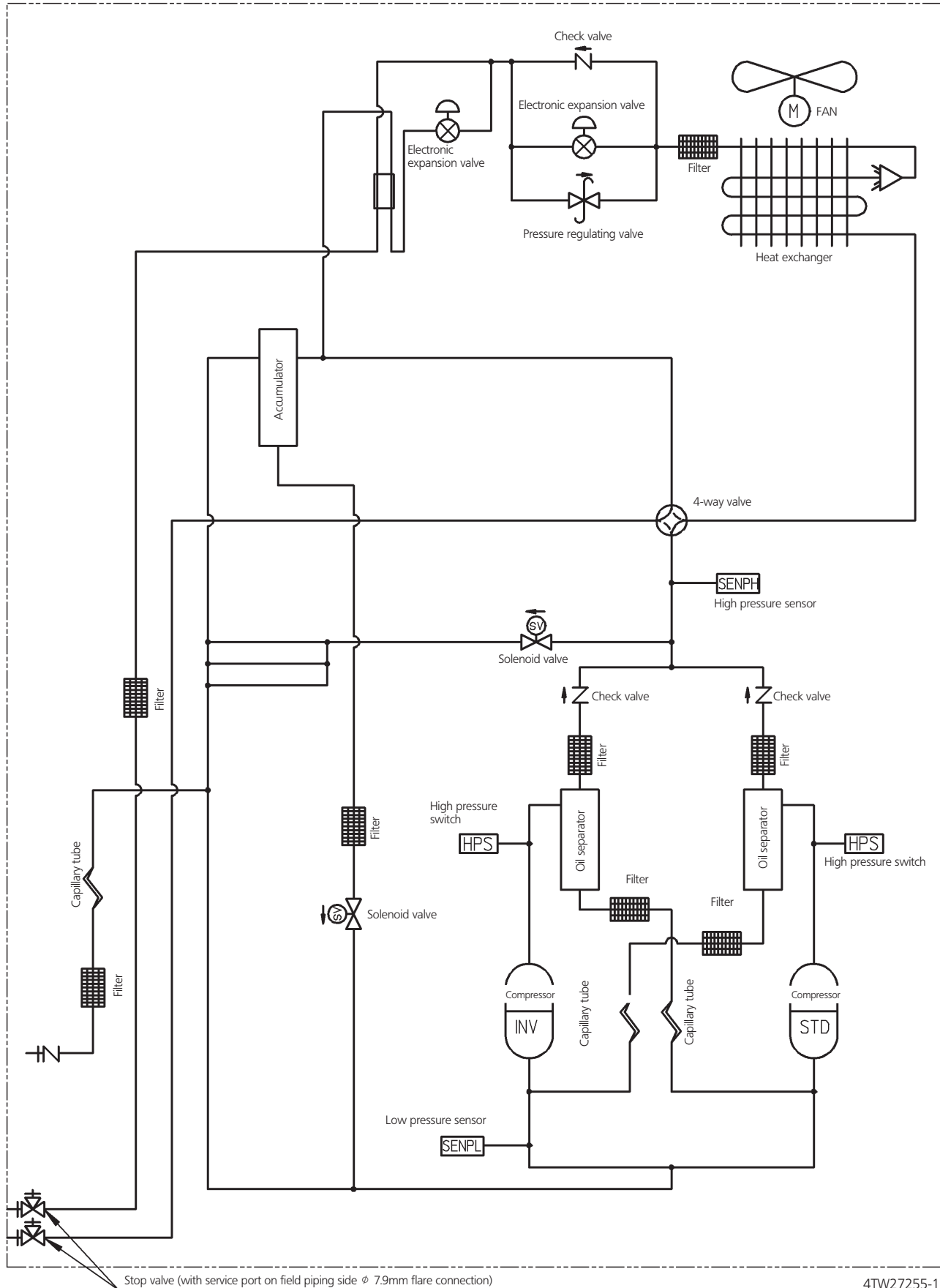


4TW27245-1

8 Piping diagrams

8 - 1 Piping Diagrams

ERQ250AW1

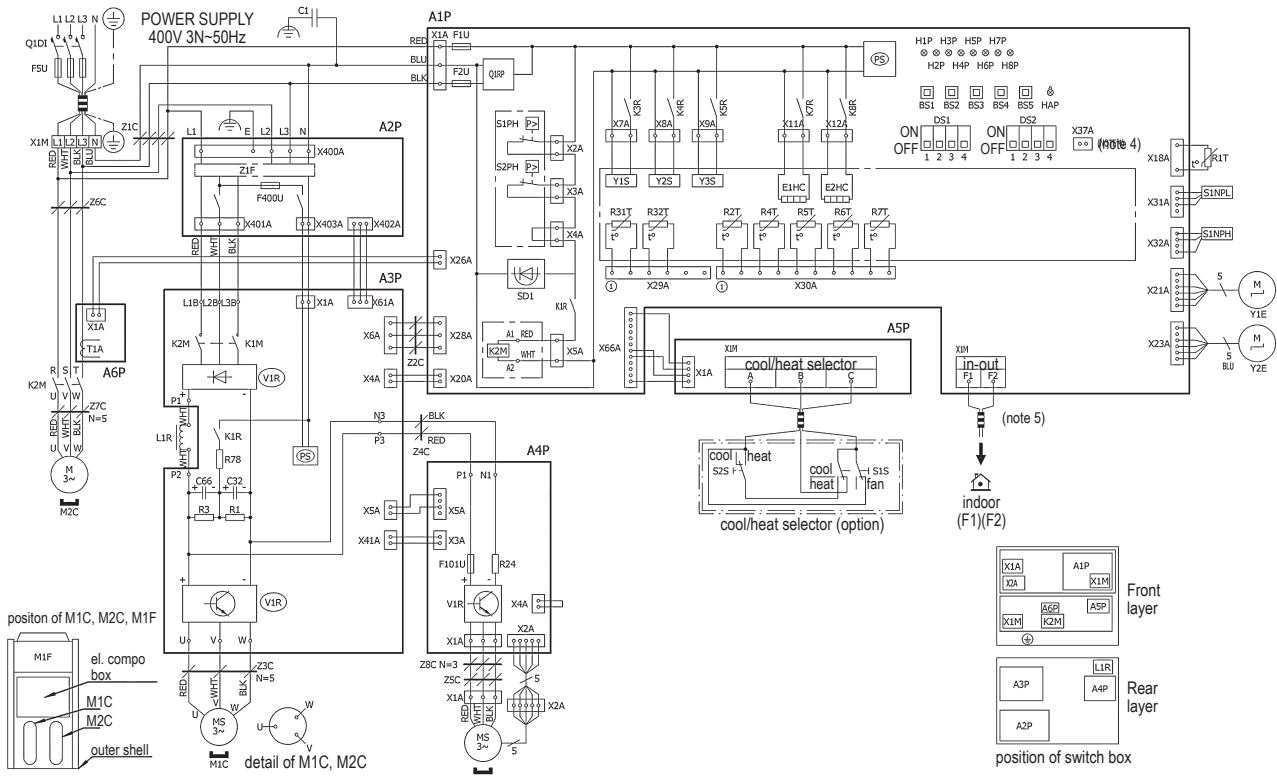


4TW27255-1

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

ERQ250AW1



NOTES

- This wiring diagram only applies to the outdoor unit.
- Field wiring
- Terminal strip, connector, terminal, protective earth (screw)
- When using the option adapter, refer to the installation manual.
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2 and on how to use the BS1~BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH.
- BLK= black RED= red BLU= blue WHT= white PNK= pink YLW= yellow BRN= brown GRY= grey GRN= green ORG= orange

A1P~A6P	Printed circuit board	
	A1P: main	A4P: fan
	A2P: noise filter	A5P: ABC I/P
	A3P: inverter	A6P: current sensor
BS1~BS5	Push button switch (mode, set, return, test, reset)	
C1	Capacitor	
C32, C66	Capacitor	
DS1, DS2	Dip switch	
E1HC, E2HC	Crankcase heater	
F101U	Fuse (A4P)	
F1U, F2U	Fuse (250V, 3.15A)(A1P)	
F5U	Field fuse	
F400U	Fuse (250V, 6.3A)(A2P)	
H1P~H8P	Pilotlamp (service monitor orange) [H2P] Prepare, test flickering Malfunction detector light up	
HAP	Pilotlamp (service monitor - green)	
K1R	Magnetic relay	
K1M, K2M	Magnetic contactor (M1C)	
K2M	Magnetic contactor (M2C)	
K1R	Magnetic relays (K2M)	
K3R~K8R	K3R: Y1S	K7R: E1HC
	K4R: Y2S	K8R: E2HC
	K5R: Y3S	
L1R	Reactor	
M1C, M2C	Motor (compressor)	
M1F	Motor (fan)	

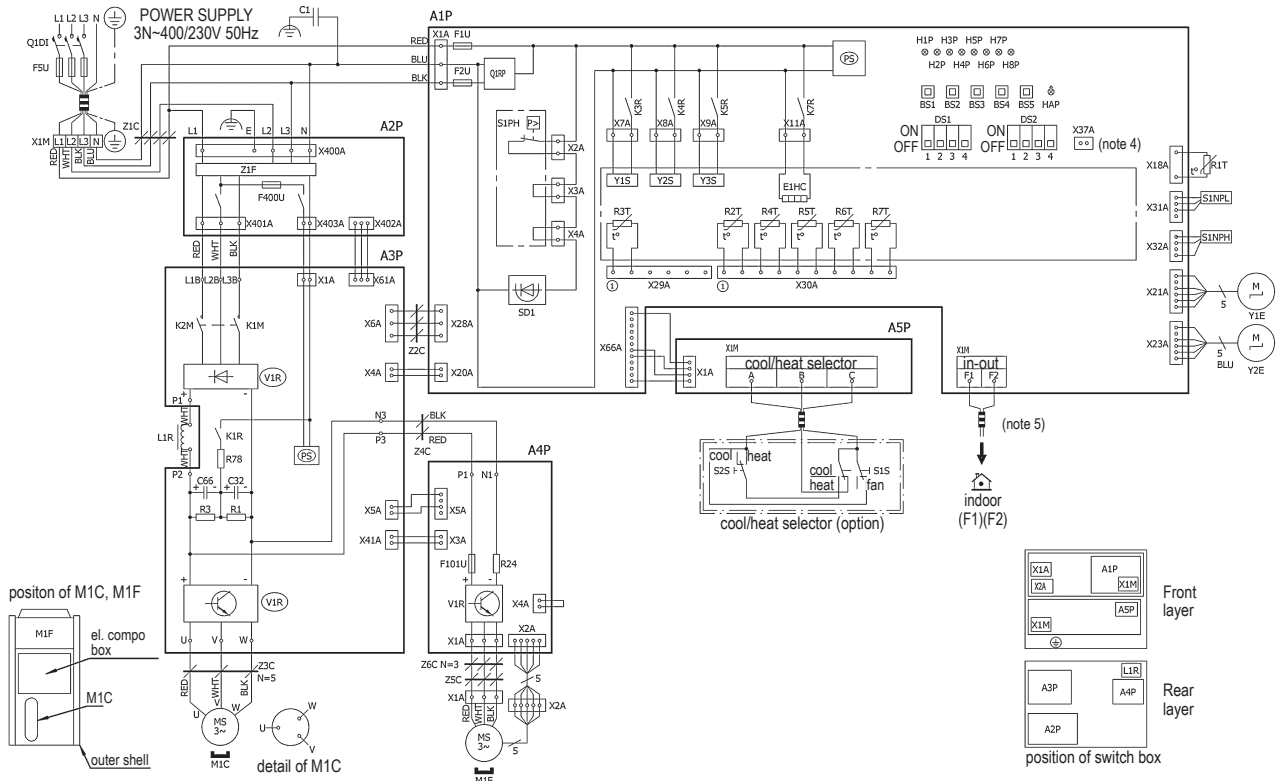
PS	Switching power supply (A1P, A3P)	
Q1RP	Phase reversal detect circuit	
Q1DI	Earth leakage breaker	
R24	Resistor (current sensor) (A4P)	
R1, R3	Resistor	
R78	Resistor (current limiting)	
R1T~R7T R31T, R32T	Thermistor	
	R1T: air (A1P)	R4T: heat exch. deicer
	R2T: suction	R5T: heat exch. outlet
	R31T: M1C discharge	R6T: liquid pipe
S1NPH	Pressure sensor (high)	
	Pressure sensor (low)	
S1PH, S2PH	Pressure switch (high)	
T1A	Current sensor (A6P)	
SD1	Safety devices input	
V1R	Power module (A4P)	
V1R	Power module (A3P)	
X1A, X2A	Connector (M1F)	
X1M	Terminal strip (power supply)	
X1M	Terminal strip (control) (A1P)	
X1M	Terminal strip (A5P)	
Y1E	Electronic expansion valve (main)	
Y2E	Electronic expansions valve (subcool)	
Y1S~Y3S	Solenoid valve	
	Y1S: hot gas	Y3S: 4 way valve
Z1C~Z8C	Noise filter (ferrite core)	
	Noise filter (with surge absorber)	
Z1F	Cool/heat selector	
S1S	Selector switch (fan / cool - heat)	
S2S	Selector switch (cool - heat)	

2TW32056-1B

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

ERQ200AW1



NOTES

- This wiring diagram only applies to the outdoor unit.
- Field wiring, indication of parts outside switchbox
- Terminal strip, connector, terminal, protective earth (screw)
- When using the option adapter, refer to the installation manual.
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1 - F2 and on how to use the BS1~BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH
- BLK= black RED= red BLU= blue WHT= white PNK= pink YLW= yellow BRN= brown GRY= grey GRN= green ORG= orange

A1P~A5P	Printed circuit board
A1P: main	A4P: fan
A2P: noise filter	A5P: ABC I/P
A3P: inverter	
BS1~BS5	Push button switch (mode, set, return, test, reset)
C1	Capacitor
C32, C66	Capacitor
DS1, DS2	Dip switch
E1HC	Crankcase heater
F101U	Fuse (A4P)
F1U, F2U	Fuse (250V, 3.15A)(A1P)
F5U	Field fuse
F400U	Fuse (250V, 6.3A)(A2P)
H1P~H8P	Pilotlamp (service monitor orange) [H2P] Prepare, test ----- flickering Malfunction detector ----- light up
HAP	Pilotlamp (service monitor - green)
K1M, K2M	Magnetic contactor (M1C)
K3R~K7R	K3R: Y1S K5R: Y3S K4R: Y2S K7R: E1HC
L1R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
PS	Switching power supply (A1P, A3P)
Q1RP	Phase reversal detect circuit
Q1DI	Earth leakage breaker
R24	Resistor (current sensor) (A4P)

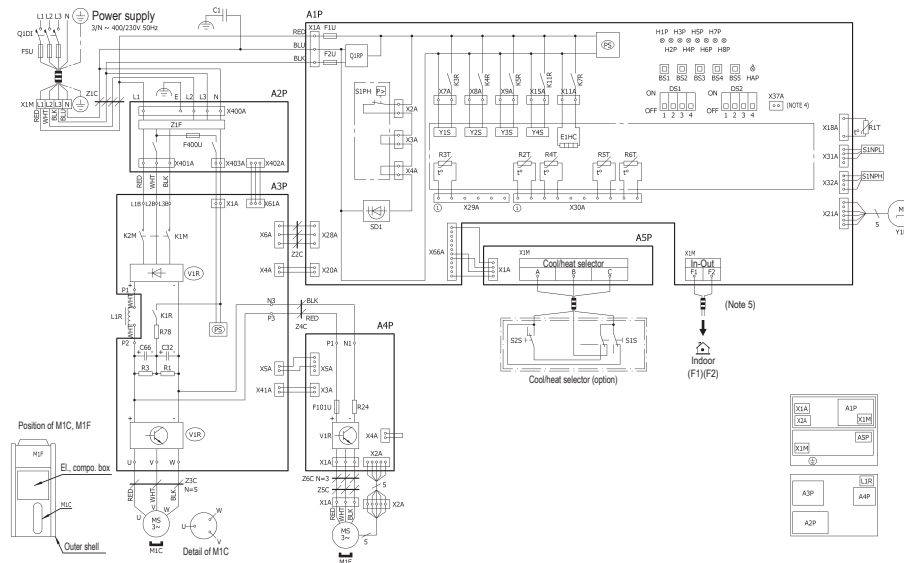
R1, R3	Resistor
R78	Resistor (current limiting)
R1T~R7T	Thermistor R1T: air (A1P) R4T: heat exch. deicer R2T: suction R5T: heat exch. outlet R3T: M1C discharge R6T: liquid pipe R7T: accumulator
S1NPH	Pressure sensor (high)
S1NPL	Pressure sensor (low)
S1PH	Pressure switch (high)
SD1	Safety devices input
V1R	Power module (A4P)
V1R	Power module (A3P)
X1A, X2A	Connector (M1F)
X1M	Terminal strip (power supply)
X1M	Terminal strip (control) (A1P)
X1M	Terminal strip (A5P)
Y1E	Electronic expansion valve (main)
Y2E	Electronic expansions valve (subcool)
Y1S~Y3S	Solenoid valve Y1S: hot gas Y3S: 4 way valve Y2S: oil return
Z1C~Z6C	Noise filter (ferrite core)
Z1F	Noise filter (with surge absorber)
Cool/heat selector	
S1S	Selector switch (fan / cool - heat)
S2S	Selector switch (cool - heat)

2TW32046-1B

9 Wiring diagrams

9 - 1 Wiring Diagrams - Three Phase

ERQ125AW1



NOTES

- This wiring diagram only applies to the outdoor unit.
- Field wiring: indication of parts outside switchbox
- terminal strip, connector, terminal, protective earth (screw)
- When using the option adapter, refer to the installation manual.
- Refer to the installation manual, for connection wiring to indoor-outdoor transmission F1-F2 and on how to use BS1-BS5 and DS1, DS2 switch.
- Do not operate the unit by short-circuiting protection device S1PH.
- BLK: black, RED: red, BLU: blue, WHT: white, PNK: pink, YLW: yellow, BRN: brown, GRN: green, ORG: orange.

A1P~5P	Printed circuit board	A4P: Fan
A1P: Main	A2P: Noise filter	A3P: Inverter
BS1-BS5	Push button switch (mode, set, return, test, reset)	
C1, C32, C66	Capacitor	
DS1, DS2	Dip switch	
E1HC	Crankcase heater	
F101U, F102U	Fuse (A4P)	
F1U, F2U	Fuse (250V, 3.15A (A1P))	

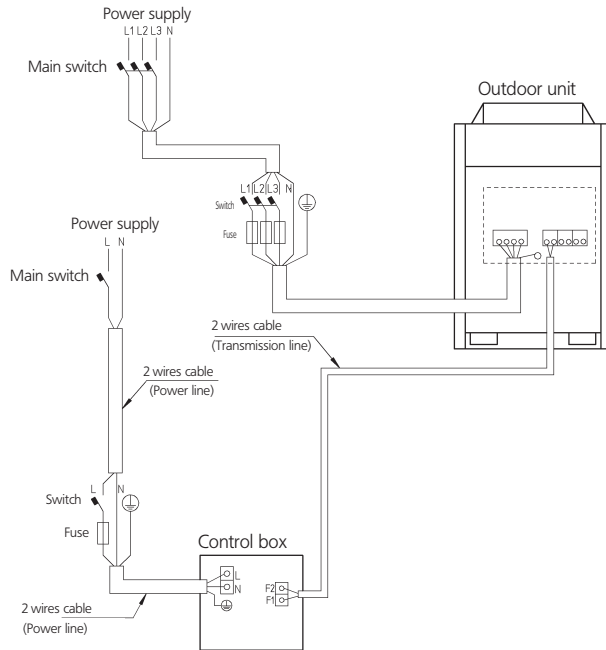
F5U	Field fuse
F400U	Fuse (250V, 6.3A (A2P))
H1P~H8P	Pilot lamp (service monitor-orange) [H2P] prepare, test -- flickering malfunction detection -- light up
HAP	Pilotlamp (service monitor-green)
K1R	Magnetic relay
K1M, K2M	Magnetic contactor (M1C)
K3R~K11R	K3R: Y1S K7R: E1HC K4R: Y2S K11R: Y4S K5R: Y3S
L1R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
PS	Switching power supply (A1P, A3P)
Q1RP	Phase reversal detect circuit
Q1DI	Earth leakage breaker
R24	Resistor (current sensor) (A4P)
R1, R3	Resistor
R78	Resistor (current limiting)
R1T~R6T	Thermistor R1T: air (A1P) R4T: heat exch. deicer R2T: suction R5T: liquid pipe R3T: M1C discharge R6T: accumulator
S1NPH	Pressure sensor (high)
S1NPL	Pressure sensor (low)
S1PH	Pressure switch (high)
SD1	Safety devices input
V1R	Power module (A4P)
V1R	Power module (A3P)
X1A, 2A	Connector (M1F)
X1M	Terminal strip (power supply)
X1M	Terminal strip (control) (A1P)
X1M	Terminal strip (A5P)
Y1E	Electronic expansion valve (main)
Y1S~Y4S	Solenoid valve Y1S: hot gas Y3S: 4 way valve Y2S: oil return Y4S: injection
Z1C~Z6C	Noise filter (Ferrite core)
Z1F	Noise filter (with surge absorber)
Cool/heat selector	
S1S	Selector switch (fan/cool-heat)
S2S	Selector switch (cool-heat)

2TW32036-1A

10 External connection diagrams

10 - 1 External Connection Diagrams

ERQ-AW1



- 1 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- 2 Use copper conductors only.
- 3 For more details, see wiring diagram.
- 4 Install a circuit breaker for safety.
- 5 All field wiring and components must be installed by a licensed electrician.
- 6 All field wiring and components must be provided by a licensed electrician and must comply with the relevant local and national codes.
- 7 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- 8 Be sure to install the switch and the fuse to the power line of each equipment.
- 9 Install the main switch that can interrupt all power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
- 10 If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
- 11 For detailed control box side connection, see control box manual and wiring diagram.

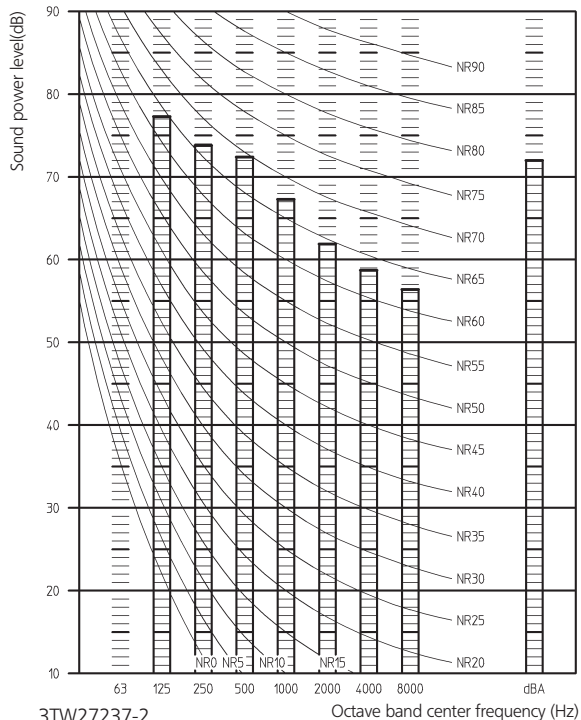
3TW27809-1

11 Sound data

11 - 1 Sound Power Spectrum

11

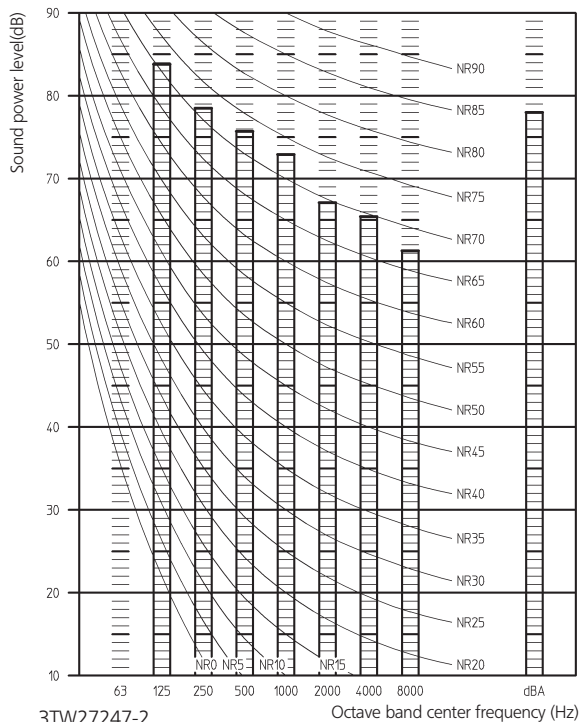
ERQ125AW1



NOTES

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

ERQ200AW1

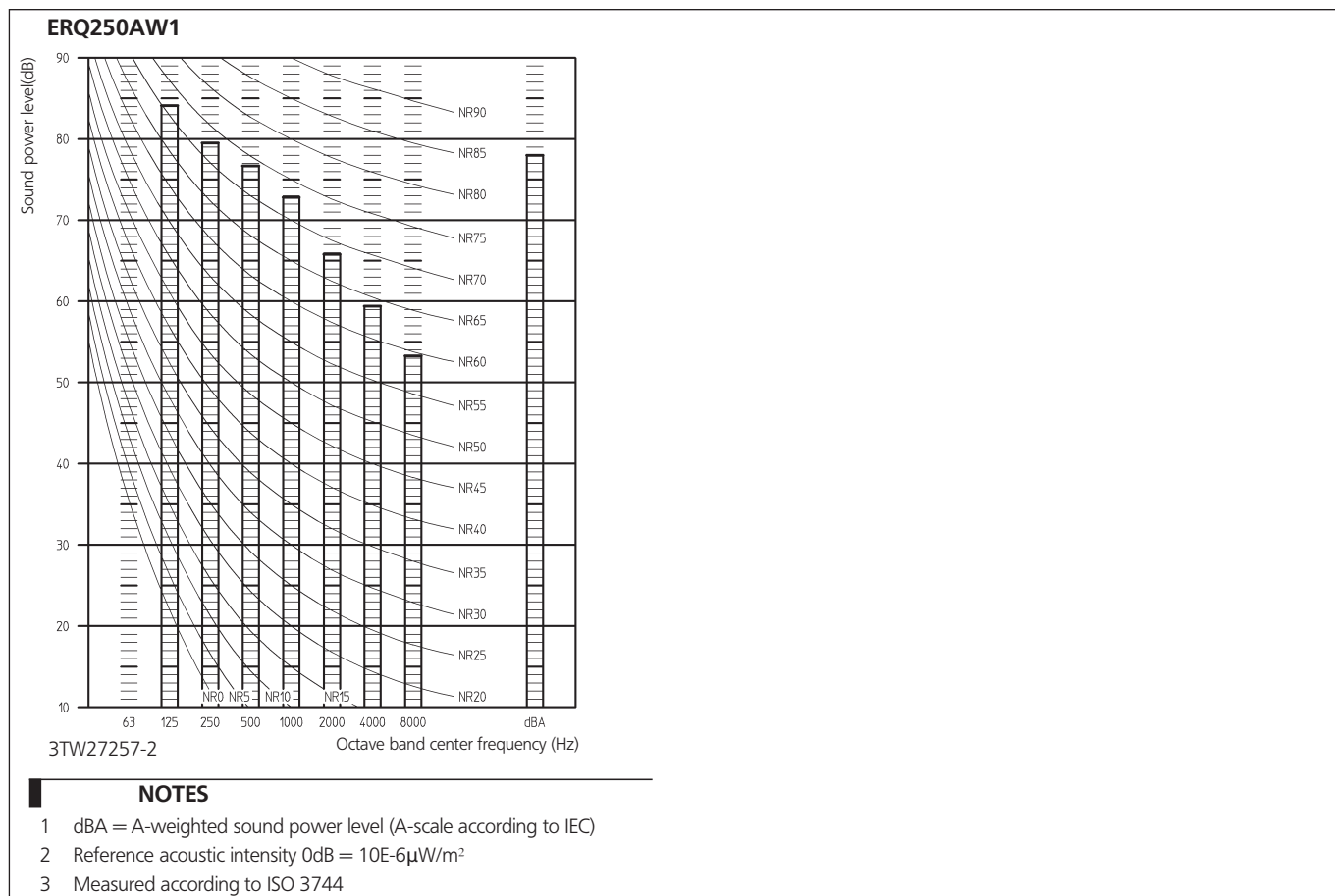


NOTES

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

11 Sound data

11 - 1 Sound Power Spectrum

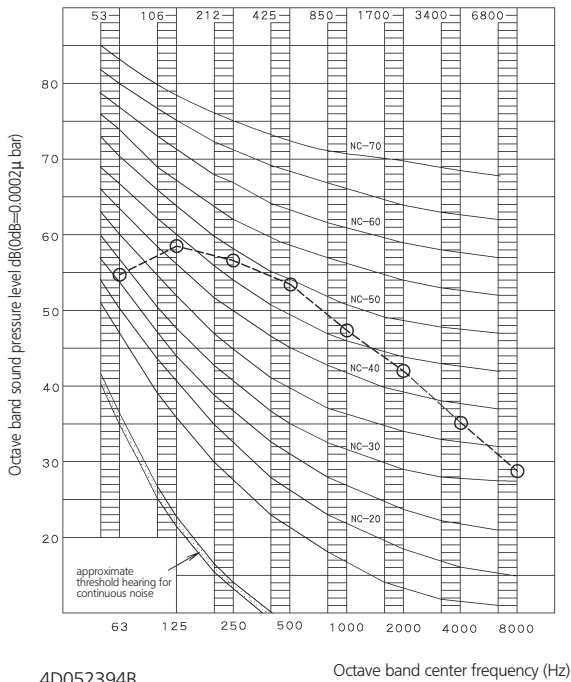


11 Sound data

11 - 2 Sound Pressure Spectrum

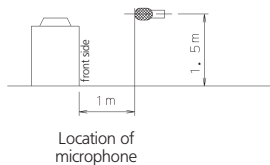
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ERQ125AW1



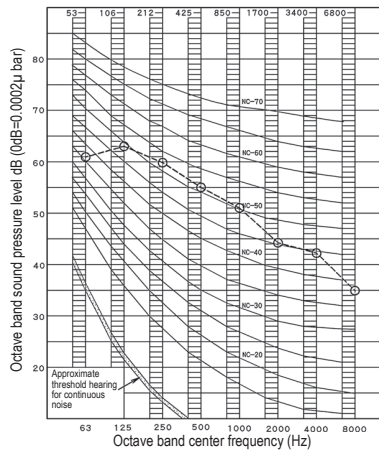
NOTES

- The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.



Location of microphone

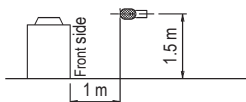
ERQ200AW1



NOTES

- Over All (dB):
(B. G. N is already rectified)
- Operating conditions:
 - Power source Y1: 380-415V 50Hz
 - JIS standard
- Measuring place: anechoic chamber (conversion value)
- The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.
- Location of microphone.

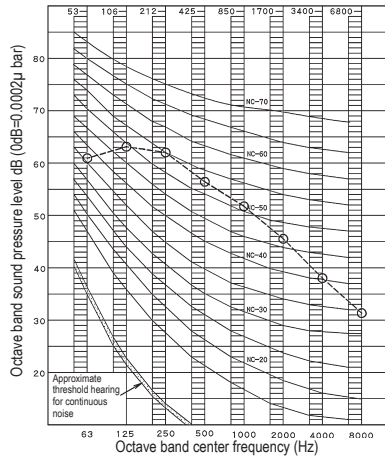
Scale	50Hz
A	57.0
C	66.5



11 Sound data

11 - 2 Sound Pressure Spectrum

ERQ250AW1

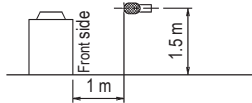


4D052396L

NOTES

- Over All (dB):
(B. G. N is already rectified)
- Operating conditions:
 - Power source Y1: 380-415V 50Hz
 - JIS standard
- Measuring place: anechoic chamber (conversion value)
- The operating sound is measured in anechoic chamber, if it is measured under the actual installation conditions, it is normally over the set value due to environmental noise and sound reflection.
- Location of microphone.

Scale	50Hz
A	58.0
C	67.0



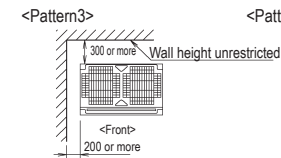
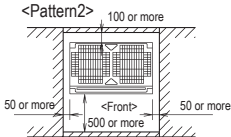
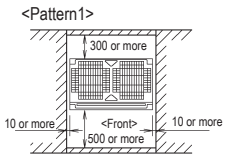
12 Installation

12 - 1 Installation Method

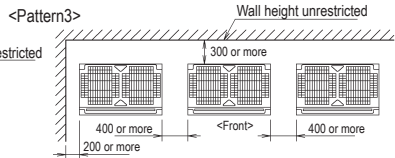
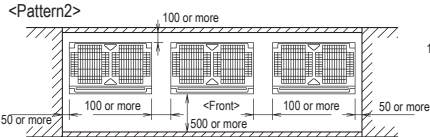
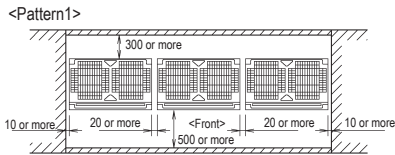
12

ERQ-AW1B

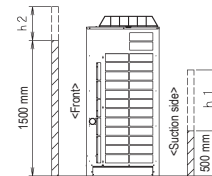
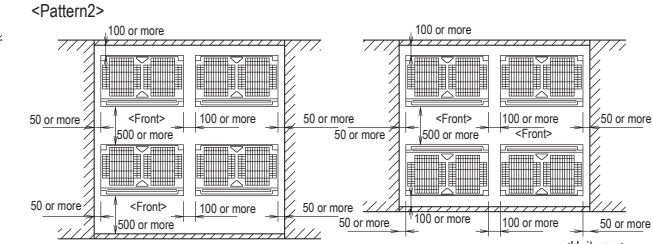
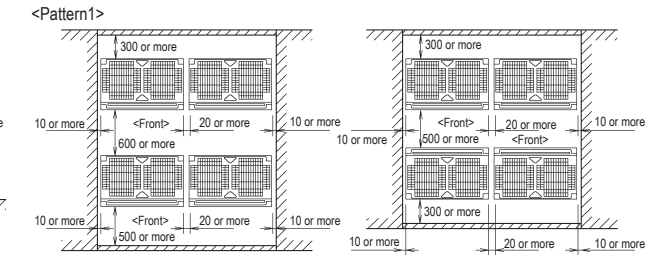
For single unit installation



For installation in rows



For centralized group layout



<Unit: mm>

NOTES

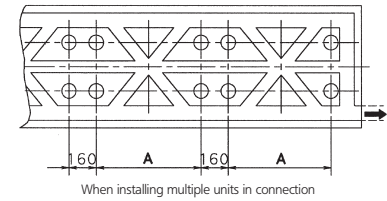
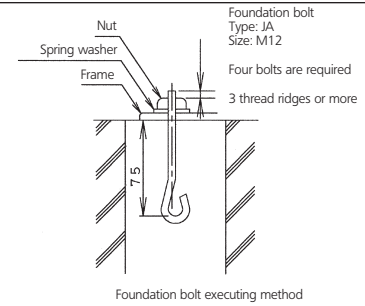
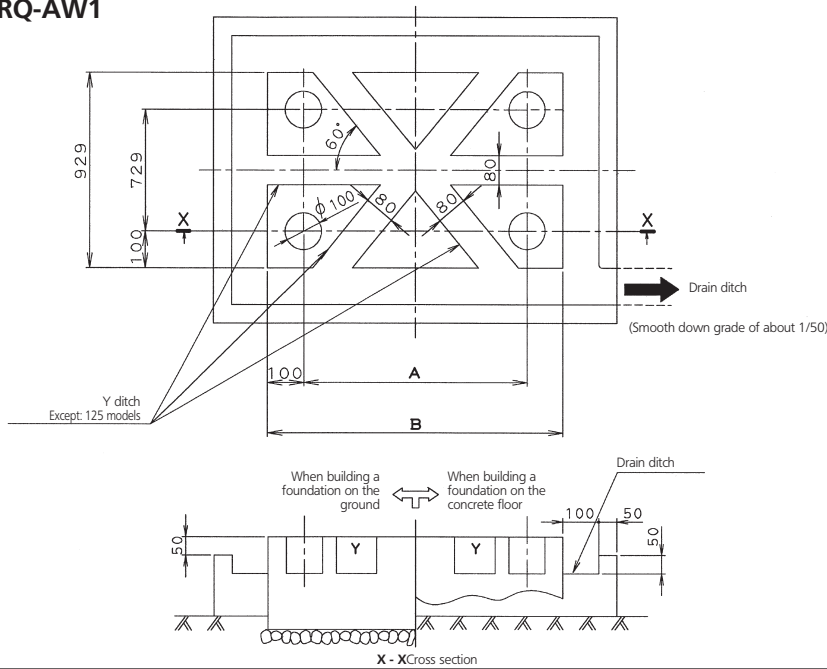
- Heights of walls in case of Patterns 1 and 2:
Front: 1500mm
Suction side: 500mm
Side: Height unrestricted.
Installation space to be shown in this drawing is based on the cooling operation at 35 degrees outdoor air temperature.
When the design outdoor air temperature exceeds 35 degrees or the load exceeds maximum ability because of much generation load of heat in all outdoor unit, take the suction side space more broadly than the space to be shown in this drawing.
- If the above wall heights are exceeded then $h/2$ and $h/2$ should be added to the front and suction side service spaces respectively as shown in the figure on the right.
- When installing the units most appropriate pattern should be selected from those shown above in order to obtain the best fit in the space available always bearing in mind the need to leave enough space for a person to pass between units and wall and for the air to circulate freely. (If more units are to be installed than are catered for in the above patterns your layout should take account of the possibility of short circuits.)
- The units should be installed to leave sufficient space at the front for the on site refrigerant piping work to be carried out comfortably.

3D051451W

12 Installation

12 - 2 Fixation and Foundation of Units

ERQ-AW1



Model	A	B
ERQ125A7W18	497	697
ERQ200A7W18	792	992
ERQ250A7W18	792	992

NOTES

- 1 The proportions of cement: sand: gravel for the concrete shall be 1:2:4, and the reinforcement bars that their diameter are 10mm, (approx. 300mm intervals) shall be placed.
- 2 The surface shall be finished with mortar. The corner edges shall be chamfered.
- 3 When the foundation is built on a concrete floor, rubble is not necessary. However, the surface of the section on which the foundation is built shall have rough finish.
- 4 A drain ditch shall be made around the foundation to thoroughly drain water from the equipment installation area.
- 5 When installing the equipment on a roof, the floor strength shall be checked, and water-proofing measures shall be taken.
- 6 Y Ditch is not necessary for 125 models.

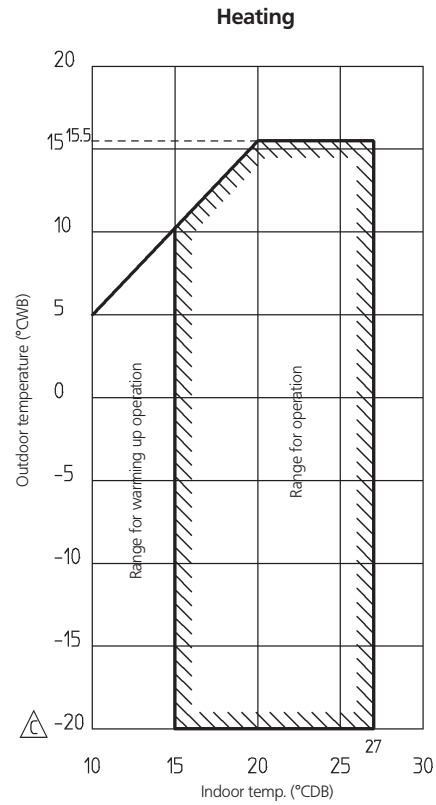
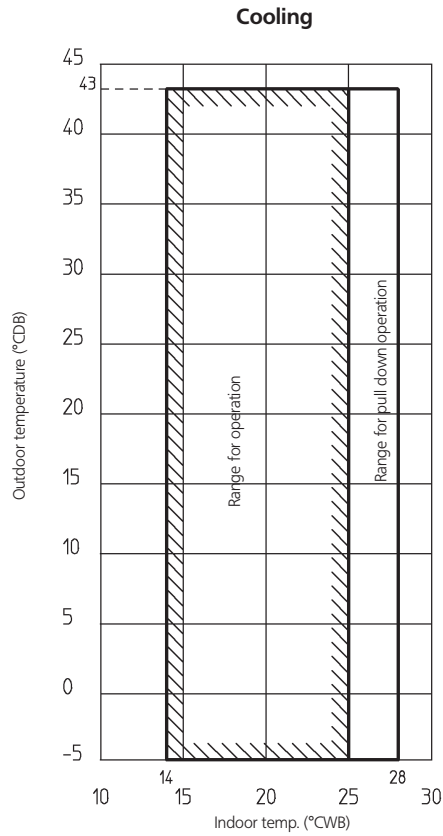
3TW32039-6

13 Operation range

13 - 1 Operation Range

ERQ-AW1

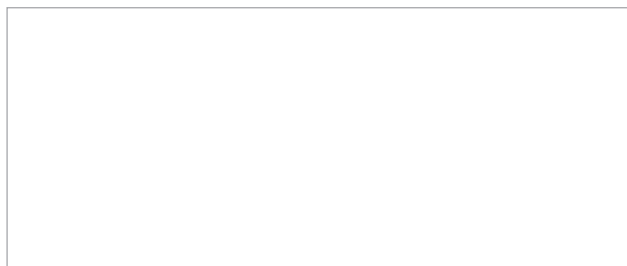
13



NOTES

- 1 These figures assume the following operating conditions.
Indoor and outdoor units:
 - Equivalent piping length 7.5m
 - 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 outdoor unit in a location not exposed to wind.

4TW25797-3C



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08/2020



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