					EWAQ016BAWN	EWAQ021BAWN	EWAQ025BAWN	EWAQ032BAWN	EWAQ040BAWN	EWAQ050BAWN	EWAQ064BAWN
Operation											
range	Air side	Cooling		°CDB	-5	-5	-5	-5	-5	-5	-5
			Max.	°CDB	43	43	43	43	43	43	43
	Water side	Cooling		°CDB	20	20	20	20	20	20	20
			Min.	°CDB	-10	-10	-10	-10	-10	-10	-10
Packing	Weight			kg	27	27	27	31	45	45	53
	Material				Carton, Wood, Plastic						
Refrigerant	Per circuit			lia.	7.6	7.6	7.0	9.6	15.2	15.2	19.2
charge				kg	7.6		7.6		15.2	15.2	
	Per circuit		Crankana	TCO2Eq	15.9	15.9	15.9	20.0	31.7	31.7	40.1
Compressor	Motor (INV)		Crankcase heater	w	33	33	33	33	33	33	33
				Quantity	1	1	1	1	2	2	2
				Model	Inverter						
	Motor (ON-OFF)			Quantity	0	1	1	2	2	2	4
	Quantity				1	2	2	3	4	4	6
					Hermetically sealed scroll	Hermetically sealed scroll		Hermetically sealed scrol	Hermetically sealed	Hermetically sealed	Hermetically sealed
	Compressor-=-Type				compressor	compressor	scroll compressor	compressor	scroll compressor	scroll compressor	scroll compressor
Weight	Packed unit			kg	291	344	344	428	616	616	783
	Operation weight			kg	267	320	320	401	577	577	738
	Unit			kg	264	317	317	397	571	571	730
Air heat											
exchanger	Length			mm	1,778	1,778	1,778	2,088	1,778	1,778	2,088
					Hydrophylic and anti-	Hydrophylic and anti-	Hydrophylic and anti-	Hydrophylic and anti-		Hydrophylic and anti-	Hydrophylic and anti-
	Fin			Treatment	corrosion resistant						
				Turno	Non-symmetric waffle louvre						
	Face area			Type m²	2.112	2.112	2.112	2.481	2.112	2.112	2.481
				Quantity	54	54	54	54	54	54	54
	Stages Fin pitch			mm	2.0	2.0	2.0	2.0	2.0	2.0	2.0
					2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Rows			Quantity	18	18	18	2	18	18	2
	Passes			Quantity	Hi-XSS (8)						
	Type				0	0	0	0	0	0	0
Defrigerent oil	Empty tubeplate hole				•	•		-	0	° .	-
Refrigerant oil				Quantitu	Synthetic (ether) oil 1	Synthetic (ether) oil	Synthetic (ether) oil	Synthetic (ether) oil	synthetic (ether) on	Synthetic (ether) oil	Synthetic (ether) oil
Refrigerant	Circuits			Quantity	1	1	1	-			1
	Refrigerant-=- Refrigerant control				Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	valve	Electronic expansion valve	Electronic expansion valve
	Refrigerant-=- Refrigerant type				R-410A						
	Refrigerant-=-				N-410A						
	Refrigerant gwp				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
Fan motor	Output			W	750	750	750	350	750	750	350
	Quantity				1	1	1	2	2	2	4
	Drive				Direct drive						
	Model				Brushless DC motor						
	Position				Vertical						
Cooling											
capacity	Nom.			kW	17.4 (1)	21.7 (1)	25.8 (1)	32.3 (1)	43.4 (1)	51.8 (1)	64.5 (1)
	Max.			kW	20.6 (1)	25.7 (1)	30.6 (1)	38.3 (1)	51.4 (1)	61.4 (1)	76.5 (1)
Water heat exchanger	Water volume			I	1.9	1.9	1.9	2.9	3.8	3.8	5.7
	Water pressure drop	Cooling	Total	kPa	20	30	42	30	30	42	30
	Model			Туре	ACH70-40H	ACH70-40H	ACH70-40H	ACH70-60H	ACH70-40H	ACH70-40H	ACH70-60H
	Filter		Diameter perforations	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6
				Material	Brass						
	Water flow rate	Cooling	Nom.	l/min	50 (1)	62 (1)	74 (1)	93 (1)	124 (1)	148 (1)	185 (1)
			Max	l/min	75	93	111	139	187	223	277
			Min.	l/min	23	23	23	36	46	46	72
					Nitrile rubber based elastomeric foam						
	Insulation material					Clascomenic Toann			elastoment loam		

	Туре				Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate	Brazed plate
Power input	Cooling		Nom.	kW	5.60 (1)	7.25 (1)	9.29 (1)	13.0 (1)	14.7 (1)	18.8 (1)	26.4 (1)
Sound power								(-)	(-)		
level	Cooling		Nom.	dBA	78	78	78	80	81	81	83
Safety devices	Item			01	High pressure switch	High pressure switch	High pressure switch	High pressure switch	High pressure switch	High pressure switch	High pressure switch
·				02	Overcurrent relay	Overcurrent relay	Overcurrent relay	Overcurrent relay	Overcurrent relay	Overcurrent relay	Overcurrent relay
						Inverter overload	Inverter overload	Inverter overload	Inverter overload	Inverter overload	Inverter overload
				03	Inverter overload protector	protector	protector	protector	protector	protector	protector
				04	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
Dimensions	Packed unit		Width	mm	1,394	1,394	1,394	1,707	2,377	2,377	2,997
			Height	mm	1,860	1,860	1,860	1,860	1,860	1,860	1,860
			Depth	mm	834	834	834	834	838	838	838
	Unit		Width	mm	1,371	1,371	1,371	1,684	2,358	2,358	2,980
	onic		Depth	mm	774	774	774	774	780	780	780
				mm	1,684	1,684	1,684	1,684	1,684	1,684	1,684
~ ··			Height	mm	1,084	1,084	1,084	1,084	1,084	1,084	1,084
Capacity control	Maximum capacity			%	120	120	120	120	120	120	120
control				%	25	25	25	25	25	25	25
	Minimum capacity			70					-	-	
<u>.</u> .	Method				Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled
Casing	Colour				Daikin White	Daikin White	Daikin White	Daikin White	Daikin White	Daikin White	Daikin White
	Matarial				Polyester coated galvanised		Polyester coated	Polyester coated	Polyester coated	Polyester coated	Polyester coated
	Material		D *1/	D *1	steel plate	galvanised steel plate	galvanised steel plate			galvanised steel plate	
PED	Most critical part		Ps*V	Bar*l	335	335	335	385	335	335	385
	Category				Category II	Category II	Category II	Category II	Category II	Category II	Category II
Fan	External static pressure		Max.	Ра	78	78	78	78	78	78	78
	Air flow rate	Cooling	Nom.	m³/min	171	185	185	233	370	370	466
	Quantity				1	1	1	2	2	2	4
	Туре				Axial	Axial	Axial	Axial	Axial	Axial	Axial
	Discharge direction				Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Water circuit	Total water volume			1	3.2 (3)	3.2 (3)	3.2 (3)	4.2 (3)	5.8 (3)	5.8 (3)	7.7 (3)
	Nominal water										
	pressure drop		Cooling	kPa	44 (6)	66 (6)	92 (6)	106 (6)	53 (6)	71 (6)	67 (6)
	Piping			inch	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"
	Piping connections										
	diameter			inch	1-1/4" (female)	1-1/4" (female)	1-1/4" (female)	1-1/4" (female)	2" (female)	2" (female)	2" (female)
	Minimum water										
	volume in the system										
	for cooling			1	33 (4)	33 (4)	33 (4)	33 (4)	66 (4)	66 (4)	66 (4)
	Safety valve			bar	3	3	3	3	3	3	3
	Air purge valve				Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water circuit-=-Drain										
	valve fill valve				Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water circuit-=-								.,	~	
	Flowswitch				Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Shut off valve				Yes	Yes	Yes	Yes	Yes	Yes	Yes
					Courses for subdrasheet	Course for a state of boot	C	Company for a sub-local based	Sensor for outdoor	Sensor for outdoor	C
Defrost contro					Sensor for outdoor heat exchanger temperature		Sensor for outdoor heat exchanger temperature		heat exchanger temperature	heat exchanger temperature	Sensor for outdoor hea exchanger temperature
	1				0 1						0 1
Template					Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled
Eer					3.11 (1)	2.99 (1)	2.78 (1)	2.48 (1)	2.95 (1)	2.76 (1)	2.44 (1)
Eseer					4.33	4.08	3.85	3.39	4.19	3.96	3.64
Defrost					Reversed cycle	Poverced evels	Powersed evelo	Powersed cycle	Powersed cycle	Powercod cycle	Powersed cycle
method				0/	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle
Power supply	Voltage range		Max.	%	10	10	10	10	10	10	10
	_		Min.	%	-10	-10	-10	-10	-10	-10	-10
	Frequency			Hz	50	50	50	50	50	50	50
	Voltage			V	400	400	400	400	400	400	400
	Phase				3N~	3N~	3N~	3N~	3N~	3N~	3N~
Unit	Starting current		Max	A	0 (8)	77.7	78.7	88.7	99.8	101.9	120.7
	Running current		Max	A	22.2	25.3	26.4	35.2	47.4	49.6	67.2
	Unit-=-Minimum ssc										
	value				1,141	853	853	840	1,706	1,706	1,679
											80

Cable requirements	Error output	Maximum running current	A	0,3	0,3	0,3	0,3	0,3	0,3	0,3
			Quantity of wires	2	2	2	2	2	2	2
	Operation ON/OFF output	Maximum running current	۵	0,3	0,3	0,3	0,3	0,3	0,3	0,3
			Quantity of wires	2	2	2	2	2	2	2
	Remote control		Maximum running current	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>	Minimum cable section 0,75 mm <sup>2</sup>
			Quantity of wires	2	2	2	2	2	2	2
	Pump ON/OFF output	Maximum running current		0.3	0.3	0.3	0.3	0.3	0.3	0.3
			Quantity of wires	2	2	2	2	2	2	2
			Required number of							
	Power supply Cooling/Heating	Maximum	conductors	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND
	output	running current	A Quantity of	0,3	0,3	0,3	0,3	0,3	0,3	0,3
			wires	2	2	2	2	2	2	2
Notes				Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)
				Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011
				Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel
				Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info.	the unit. In most applications this minimum water volume will have a satisfying result. In critical	in the unit. In most applications this minimum water volume will have a satisfying recesses or in rooms with a high heat load though, extra water volume might be required. Refer to	minimum water volume will have a satisfying result. In critical	most applications this minimum water volume will have a satisfying result. In critical processes or ir rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info.	Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info.	applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water
				Excluding the water volume in the unit. This volume will guarantee suficient defrost energy for all applications, however, this volume can be multiplied by 0,66 if the heating sepoint is 2 45° C (eg. Fan coils)	volume will guarantee suficient defrost energy for all applications, however, this volume can be multiplied by 0,66 if the	however, this volume can be multiplied by 0,66 if the heating	volume in the unit. This volume will guarantee suficient defrost energy	can be multiplied by 0,66 if the heating	defrost energy for all applications, however, this volume can be multiplied by 0,66 if	can be multiplied by 0,66 if the heating
				This is PD between inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop.	It includes the water side	unit. It includes the		includes the water side heat exchanger pressure drop.	inlet & outlet connections of unit. It includes the water side heat exchanger pressure drop.	
				This is ESP between inlet & outlet connections of unit. It consists out of pump SP minus all internal PD's.		inlet & outlet connections of unit. It	This is ESP between inlet & outlet connections of unit. It consists out of pump SP minus all internal PD's.	connections of unit. It	consists out of pump	
				No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor

							In accordance with	In accordance with	In accordance with EN/IEC 61000-3-11,	In accordance with EN/IEC 61000-3-11,	In accordance with
					61000-3-11, respectively EN/IEC 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the	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	respectively EN/IEC of 61000-3-12, it may be necessary to consult the distribution network operator to ensure that the equipment is	necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤ Zmax,	necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with Zsys ≤	supply with Zsys ≤ Zmax, respectively Sso	61000-3-12, it may be necessary to consult th distribution network operator to ensure tha the equipment is connected only to a supply with Zsys ≤ Zmax, respectively Ssc 3
					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	public low-voltage supply	voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for	European/international technical standard setting the limits for voltage changes, voltage fluctuations and flicker ir public low-voltage supply	setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for	European/international l technical standard setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply	EN/IEC 61000-3-11: a European/internationa 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	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	harmonic currents produced by equipment connected to public low-voltage system with	technical standard setting the limits for harmonic currents produced by equipment connected to public low- voltage system with	al 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	I 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	EN/IEC 61000-3-12: a European/internationa technical standard setting the limits for harmonic currents produced by equipmen connected to public low-voltage system with input current > 16A and ≤ 75A per phase
					Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit powe
					Zsys: system impedance	Zsys: system impedance	Zsvs: system impedance	Zsvs: system impedance	Zsys: system impedance	Zsys: system impedance	Zsys: system impedance
					Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details	Equipment contains fluorinated greenhouse gases. Actual refrigerant	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction,	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction,	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction details can be found on the unit labels.	Equipment contains fluorinated greenhouss gases. Actual refrigerant charge depends on the final
<b>C</b>			Crankcase			22	22	22	22	22	22
Compressor	Motor (ON-OFF)		heater	W Model		33 ON/OFF	33 ON/OFF	33 ON/OFF	33 ON/OFF	33 ON/OFF	33 ON/OFF
Unit	Current		Zmax	Text		0.27	0.27	0.24	0.25	0.25	0.22
Fan motor 2	Output			W				350	750	750	350
Fan motor 3	Output			W							350
Fan motor 4	Output			W							350
					EWAQ016BAWP	EWAQ021BAWP	EWAQ025BAWP	EWAQ032BAWP	EWAQ040BAWP	EWAQ050BAWP	EWAQ064BAWP
Operation range	Air side	Cooling	Min	°CDB	-5	-5	-5	-5	-5	-5	-5
		coomig	Max.	°CDB	43	43	43	43	43	43	43
	Water side	Cooling		°CDB	20	20	20	20	20	20	20
			Min.	°CDB	-10	-10	-10	-10	-10	-10	-10
Packing	Weight			kg	27	27	27	31	45	45	53
5	Material			Ŭ	Carton, Wood, Plastic	Carton, Wood, Plastic	Carton, Wood, Plastic				Carton, Wood, Plastic
Refrigerant					,,	,			,,	,,,	
charge	Per circuit			kg	7.6	7.6	7.6	9.6	15.2	15.2	19.2
	Per circuit			TCO2Eq	15.9	15.9	15.9	20.0	31.7	31.7	40.1
Compressor	Motor (INV)		Crankcase heater	w	33	33	33	33	33	33	33

				Quantity	1	1	1	1	2	2	2
				Model	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter	Inverter
	Motor (ON-OFF)			Quantity	0	1	1	2	2	2	4
	Quantity				1	2	2	3	4	4	6
	Compressor-=-Type				Hermetically sealed scroll compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor	Hermetically sealed scrol compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor	Hermetically sealed scroll compressor
Veight	Packed unit			kg	291	344	344	428	616	616	783
	Operation weight			kg	267	320	320	401	577	577	738
	Unit			kg	264	317	317	397	571	571	730
Air heat				0							
exchanger	Length			mm	1,778	1,778	1,778	2,088	1,778	1,778	2,088
-	Fin			Treatment	Hydrophylic and anti- corrosion resistant	Hydrophylic and anti corrosion resistant					
				Туре	Non-symmetric waffle louvre	Non-symmetric waffle louvre	Non-symmetric waffle louvre	Non-symmetric waffle louvre	Non-symmetric waffle louvre	Non-symmetric waffle louvre	Non-symmetric waffl louvre
	Face area			m²	2.112	2.112	2.112	2.481	2.112	2.112	2.481
	Stages			Quantity	54	54	54	54	54	54	54
	Fin pitch			mm	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	Rows			Quantity	2.0	2.0	2.0	2.0	2.0	2.0	2.0
						18	18	21	18		21
	Passes			Quantity				Hi-XSS (8)		18	
	Type				Hi-XSS (8)	Hi-XSS (8)	Hi-XSS (8)		Hi-XSS (8)	Hi-XSS (8)	Hi-XSS (8)
	Empty tubeplate hole				0	0	0	0	0	0	0
Refrigerant oil					Synthetic (ether) oil	, , ,	Synthetic (ether) oil				
Refrigerant	Circuits Refrigerant-=-			Quantity	1	1	1 Electronic expansion	1 Electronic expansion		1 Electronic expansion	1 Electronic expansion
	Refrigerant control Refrigerant-=-				Electronic expansion valve		valve	valve	valve	valve	valve
	Refrigerant type Refrigerant-=-				R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
	Refrigerant gwp				2,087.5	2,087.5	2,087.5	2,087.5	2,087.5	2,087.5	2,087.5
Fan motor	Output			W	750	750	750	350	750	750	350
	Quantity				1	1	1	2	2	2	4
	Drive				Direct drive	Direct drive					
	Model				Brushless DC motor	Brushless DC motor					
	Position				Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Cooling											
capacity	Nom.			kW	16.6 (1)	20.7 (1)	24.7 (1)	30.9 (1)	41.5 (1)	49.7 (1)	62.3 (1)
	Max.			kW	19.8 (1)	24.7 (1)	29.5 (1)	36.9 (1)	49.5 (1)	59.3 (1)	74.3 (1)
Water heat exchanger	Water volume			1	1.9	1.9	1.9	2.9	3.8	3.8	5.7
exentinger	Water pressure drop	Cooling	Total	kPa	20	30	42	30	30	42	30
	Model	cooning	Total	Туре	ACH70-40H	ACH70-40H	ACH70-40H	ACH70-60H	ACH70-40H	ACH70-40H	ACH70-60H
	model		Diameter	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	Filter		perforations	mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6
				Material	Brass	Brass	Brass	Brass	Brass	Brass	Brass
	Water flow rate	Cooling	Nom.	I/min	50 (1)	62 (1)	74 (1)	93 (1)	124 (1)	148 (1)	185 (1)
			Max	l/min	75	93	111	139	187	223	277
			Min.	l/min	23	23	23	36	46	46	72
	Insulation material			.,	Nitrile rubber based elastomeric foam	Nitrile rubber based elastomeric foam					
	Quantity				1	1	1	1	2	2	2
	Туре				Brazed plate	Brazed plate					
Power input	Cooling		Nom.	kW	5.80 (1)	7.59 (1)	9.74 (1)	13.5 (1)	15.4 (1)	19.7 (1)	27.4 (1)
Sound power											
level	Cooling		Nom.	dBA	78	78	78	80	81	81	83
Safety devices	Item			01	High pressure switch	High pressure switch	High pressure switch	High pressure switch		High pressure switch	High pressure switch
				02	Overcurrent relay	Overcurrent relay					
				03	Inverter overload protector	Inverter overload protector	Inverter overload protector				
				04	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse	Fuse
	De also al suelte		Width	mm	1,394	1,394	1,394	1,707	2,377	2,377	2,997
Dimensions	Packed unit							±,, 0,	_,	_,	_,,
Dimensions	Packed unit							1 860	1 860	1.860	1 860
Dimensions	Packed unit		Height Depth	mm mm	1,860 834	1,860 834	1,860 834	1,860 834	1,860 838	1,860 838	1,860 838

		Depth	mm	774	774	774	774	780	780	780
C		Height	mm	1,684	1,684	1,684	1,684	1,684	1,684	1,684
Capacity control	Maximum capacity		%	120	120	120	120	120	120	120
	Minimum capacity		%	25	25	25	25	25	25	25
	Method		70	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled	Inverter controlled
Casing	Colour			Daikin White	Daikin White	Daikin White	Daikin White	Daikin White	Daikin White	Daikin White
cusing	coloui			Polyester coated galvanised	Polvester coated	Polyester coated	Polvester coated	Polyester coated	Polyester coated	Polyester coated
	Material			steel plate	galvanised steel plate	galvanised steel plate	galvanised steel plate		galvanised steel plate	
PED	Most critical part	Ps*V	Bar*l	335	335	335	385	335	335	385
	Category			Category II	Category II	Category II	Category II	Category II	Category II	Category II
Fan	External static pressure	Max.	Ра	78	78	78	78	78	78	78
	Air flow rate Cooli	ng Nom.	m³/min	171	185	185	233	370	370	466
	Quantity			1	1	1	2	2	2	4
	Туре			Axial	Axial	Axial	Axial	Axial	Axial	Axial
	Discharge direction			Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Water circuit	Total water volume		I	3.2 (3)	3.2 (3)	3.2 (3)	4.2 (3)	5.8 (3)	5.8 (3)	7.7 (3)
	Nominal water									
	pressure drop	Cooling	kPa	44 (6)	66 (6)	92 (6)	106 (6)	53 (6)	71 (6)	67 (6)
	Piping		inch	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"
	Piping connections					(			all (C ) )	
	diameter		inch	1-1/4" (female)	1-1/4" (female)	1-1/4" (female)	1-1/4" (female)	2" (female)	2" (female)	2" (female)
	Minimum water volume in the system									
	for cooling		I	33 (4)	33 (4)	33 (4)	33 (4)	66 (4)	66 (4)	66 (4)
	Safety valve		bar	3	3	3	3	3	3	3
	Air purge valve			Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water circuit-=-Drain valve fill valve			Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Water circuit-=-									
	Flowswitch			Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Shut off valve			Yes	Yes	Yes	Yes	Yes	Yes	Yes
Defrost contro	1			Sensor for outdoor heat exchanger temperature	Sensor for outdoor heat exchanger temperature	Sensor for outdoor heat exchanger temperature		Sensor for outdoor heat exchanger temperature	Sensor for outdoor heat exchanger temperature	Sensor for outdoor hea exchanger temperatur
Template				Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled	Chillers air cooled
Eer				2.86 (1)	2.73 (1)	2.54 (1)	2.29 (1)	2.69 (1)	2.52 (1)	2.27 (1)
Eseer				4.21	4.18	4.04	3.62	4.24	4.12	3.78
Defrost method				Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle	Reversed cycle
Power supply	Voltage range	Max.	%	10	10	10	10	10	10	10
,		Min.	%	-10	-10	-10	-10	-10	-10	-10
	Frequency		Hz	50	50	50	50	50	50	50
	Voltage		V	400	400	400	400	400	400	400
	Phase			3N~	3N~	3N~	3N~	3N~	3N~	3N~
Unit	Starting current	Max	A	0 (8)	77.7	78.7	88.7	99.8	101.9	120.7
	Running current	Max	A	22.2	25.3	26.4	35.2	47.4	49.6	67.2
	Unit-=-Minimum ssc					-				
	value			1,141	853	853	840	1,706	1,706	1,679
	Recommended fuses			25	32	32	40	50	63	80
Cable		Maximum								
requirements	Error output	running current	A	0,3	0,3	0,3	0,3	0,3	0,3	0,3
			Quantity of	_				-		
			wires	2	2	2	2	2	2	2
	Operation ON/OFF output	Maximum running current		0,3	0,3	0,3	0,3	0,3	0,3	0,3
	output	running current	Quantity of	0,5	0,5	0,5	0,5	0,5	0,5	0,5
			wires	2	2	2	2	2	2	2
			Maximum	Minimum cable section 0,75				Minimum cable		n Minimum cable sectio
	Remote control		running current		0,75 mm <sup>2</sup>	0,75 mm <sup>2</sup>	0,75 mm <sup>2</sup>	section 0,75 mm <sup>2</sup>	0,75 mm <sup>2</sup>	0,75 mm <sup>2</sup>
			Quantity of							
			wires	2	2	2	2	2	2	2
		Maximating								
	Pump ON/OFF output	Maximum running current	A	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Pump ON/OFF output	running current	A Quantity of	0.3	0.3	0.3	0.3	0.3	0.3	0.3

	Power supply		Required number of conductors	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND	4 + GND
	Cooling/Heating output	Maximum running current	A	0,3	0,3	0,3	0,3	0,3	0,3	0,3
			Quantity of wires	2	2	2	2	2	2	2
Notes				Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)	Condition: Ta 35°C - LWE 7°C ( DT = 5°C)
				Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511-2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011	Capacity, Power Input, EER, COP, ESEER according EN14511- 2011
				Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel	Including piping + PHE; excluding expansion vessel
				the unit. In most applications this minimum water volume will have a satisfying result. In critical	satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to	in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required. Refer to	will have a satisfying result. In critical	volume in the unit. In most applications this minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water volume might be required.	Excluding water volume in the unit. In most applications this minimum water volume will have a satisfying result. In rortical processes or in rooms with a high heat load though, extra water volume might be required. Refer to operation range for more info.	minimum water volume will have a satisfying result. In critical processes or in rooms with a high heat load though, extra water
				Excluding the water volume in the unit. This volume will guarantee sufficient defrost energy for all applications, however, this volume can be multiplied by $0.66$ if the heating sepoint is $\geq 45^{\circ}$ C (eg. Fan coils)	volume will guarantee suficient defrost energy for all applications, however, this volume can be	however, this volume can be multiplied by 0,66 if the heating	volume in the unit. This	can be multiplied by 0,66 if the heating	defrost energy for all applications, however, this volume can be multiplied by 0,66 if	Excluding the water volume in the unit. This volume will guarantee suficient defrost energy for all applications, however, this volume can be multiplied by 0,66 if the heating sepoint is 2 45° C (eg. Fan coils)
				This is PD between inlet & outlet connections of unit. If includes the water side heat exchanger pressure drop.					inlet & outlet t connections of unit. It	
				This is ESP between inlet & outlet connections of unit. It consists out of pump SP minus all internal PD's.		connections of unit. It	pump SP minus all	connections of unit. In	inlet & outlet t connections of unit. It consists out of pump	
				No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor	No peak current because of inverter compressor
				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	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	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	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,	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 SS	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 ≤	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 Sc ≥

				EN/IEC 61000-3-11:	EN/IEC 61000-3-11:	EN/IEC 61000-3-11: European/international	EN/IEC 61000-3-11:	al technical standard		EN/IEC 61000-3-11: European/international
				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	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	voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for	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	low-voltage supply systems for	setting the limits for voltage changes, voltage fluctuations and flicker in public low-voltage supply	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	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	harmonic currents produced by equipment connected to public low-voltage system with	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	al technical standard setting the limits for harmonic currents produced by equipment connected	I technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input	EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and ≤ 75A per phase
				Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit power	Ssc: Short-circuit	Ssc: Short-circuit	Ssc: Short-circuit power
				Zsys: system impedance	Zsys: system impedance			Zsys: system	Zsys: system	Zsys: system impedance
				Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction, details can be found on the unit labels.	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction,	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction,		Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final unit construction,	Equipment contains fluorinated greenhouse gases. Actual refrigerant charge depends on the final
Compressor	Motor (ON-OFF)	Crankcase heater	w		33	33	33	33	33	33
			Model		ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
Unit	Current	Zmax	Text		0.27	0.27	0.24	0.25	0.25	0.22
Fan motor 2	Output		W				350	750	750	350
Fan motor 3	Output		W							350
Fan motor 4	Output		W							350