

AIR-COOLED Chillers







APPLIED SYSTEMS

R-407C

www.daikin.eu

COOLING ONLY HEAT PUMP

EUWA*5-24KAZW EUWY*5-24KAZW

ENVIRONMENTAL AWARENESS

Daikin and the Environment

In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have invested enormous efforts in limiting the negative effects associated with the production and the operation of chillers. Hence, models with energy saving features and improved eco-production techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.

FLEXIBLE APPLICATION AND EASY INSTALLATION



7 cooling only (11 - 55kW) and heat pump (cooling 9 - 50kW and heating 12 - 54kW) models are available, each comprising 3 different modular based design options.

Top of the range is model 'B' – an "all in one" version, complete with hydraulic module incorporating 55 liter buffer tank, pump, 12 liter expansion vessel, air purge, manometer, shut off valve and optional freeze protection.

A slightly lower specification version – model 'P' is similar to the B-version, but does not contain a buffer tank. The third option is a basic model 'N', without hydraulic module. Main switch, flow switch and water filter are fitted as standard to all 3 options.

ENERGY EFFICIENT SCROLL COMPRESSOR



The heart of the unit is the Daikin hermetic multiple scroll compressor, designed to the very highest technical standards and optimised for use with R-407C refrigerant. Pressure losses are minimised by reduced axial clearance and the scroll centre has been redesigned to reduce over consumption. Improved motor efficiency ensures an optimal performance and a compressor EER rating of 3.5 minimum. Volumetric efficiency is enhanced by better suction gas distribution and controlling superheat generated by the scroll.

The presence of more than 1 million of these units in the field is testament to their low power consumption, high compression efficiency, low operating sound levels and starting torque and ability to operate in world wide environments.

EFFICIENT HEAT TRANSFER

The use of a brased, stainless plate heat exchanger for the evaporator ensures maximum heat transfer between refrigerant and water circuits within minimal and compact areas with high W/m² values that ensure optimum efficiency. Plate heat exchangers also offer more efficient pump selection than can be achieved with other types of heat exchangers. Also, the counter flow design utilised for refrigerant and water overcomes all problems associated with R-407C temperature glide characteristics.

Condenser coils are constructed from specially designed header distribution pipes, in combination with internally grooved Hi-X tubing and aluminium waffle louvre pressed fins. This unique combination of increased contact surfaces and reduced overall coil size, results in optimum heat transfer efficiency. Protection against severe weather conditions is provided by special polyethylene (PE) treatment of the condenser coils.

FLEXIBLE CONTROL

The chiller is fitted with a μ chiller auto diagnostic controller enabling it to be integrated with a building management system (BMS) which can monitor and control chillers, lighting, alarms and ventilation, etc. The Daikin BMS connection supports popular standard protocols such as MODBUS, J-BUS and BACNET and consists of built-in address cards for each chiller and a single gateway that can link as many as 16 units to the BMS. The BMS supports the complete operation of the chiller and can also monitor and control more than 130 parameters including unit settings, status, temperatures, pressures, alarm, set points and on/off operation. A remote user interface is also available as option.

UNIT IMPROVEMENTS

Numerous refinements have been incorporated in the range. All components are easily accessible for maintenance and the service door fixings are of improved quality. Also, power can be cut via the main switch before the door is opened. A single interface is used throughout the entire range and can be accessed without tools. Pump start-up can be achieved manually when the chiller is switched off and an additional connection has been fitted in the switchbox for field installed heater tape.

SOUND

Sound suppression – an important factor of everyday life – is afforded high priority by Daikin and the company has long-term experience in suppressing operational sound levels and reducing vibrations by means of special piping design.







3 DIFFERENT DESIGN OPTIONS EUWA*-KAZW/EUWY*-KAZW (B/P/N)

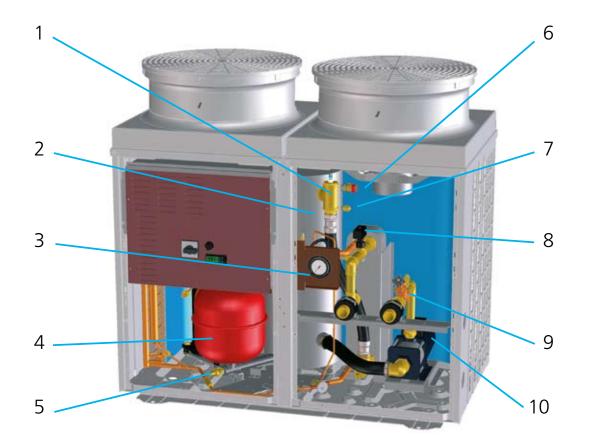
B-type = EUWA/EUWY chiller + integrated hydraulic module

- > buffer tank
- > pump
- > expansion vessel
- > hydraulic components

P-type = EUWA/EUWY chiller + integrated hydraulic module

- > pump
- expansion vessel
- hydraulic components

N-type = EUWA/EUWY chiller without integrated hydraulic module



- 1 Air purge
- 2 Buffer tank
- 3 Water Pressure gauge
- 4 Expansion vessel
- 5 Drain

- 6 Safety valve
- 7 Pressure port
- 8 Flow switch
- 9 Water flow adjusting valve
- 10 Pump

Description	EUWAB-KAZW	EUWAP-KAZW	EUWAN-KAZW		
Description	EUWYB-KAZW	EUWYP-KAZW	EUWYN-KAZW		
Pressure regulating valve	YES	YES	-		
Pump	YES	YES	-		
Pressure port pump	YES	YES	-		
ilter (delivered as a kit with the unit)	YES	YES	YES		
Safety valve	YES	YES	-		
Vanometer	YES	YES	-		
Expansion vessel	YES	YES	-		
Drain valve	YES	YES	YES		
-ill valve	YES	YES	-		
hut off valves for easy water filter cleaning	YES	YES	YES		
Air purge	YES	YES	YES		
Buffer tank	YES	-	-		
reeze protection	YES	YES	YES		
vaporator	YES	YES	YES		
-low switch	YES	YES	YES		
Pressure port evaporator	YES	YES	YES		
Vater temperature sensor in	YES	YES	YES		
Nater temperature sensor out	YES	YES	YES		

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Cooling Only		EUWA*5KAZW			EU	WA*8KA	zw	EUV	VA*10KA	zw	EUWA*12KAZW						
Cooling Only			В	Р	N	В	B P		B P		N	B P		N			
Nominal capacity	cooling	kW		11.3		17.9				22.5	,		26.5				
Nominal input	cooling	kW	4.64 4.52		7.	7.39 7.3		8.74		8.79	11.5		11.5				
EER			2.44		2.51	2.42		2.42	2.57		2.56	2.30		2.30			
Capacity steps				0~100			0~100			0~100		0~100					
Nominal pressure dro	p	kPa		24			38			43		1	37				
	type	<u>^</u>	R-407C														
	charge	kg		3.9			4.6			4.6			6.0				
Refrigerant circuit	control		Thermostatic expansion valve														
	oil type		FVC68D														
	oil charge	1		1.5			2.7			2.7			2.7				
Compressor	type						Hermeti	cally seale	d scroll coi	mpressor							
Compressor	no. of circuits/c	compressors	1/1				1/1			1/1		1/1					
Air heat exchanger						Cross fin	coil / Hi-X	(tubes an	d PE coate	d waffle l	ouvre fins						
Nominal static height	Nominal static height unit kPa		205 -		-	154 -			123 -			105		-			
Expansion tank		1	1	2	-	12		-	12		-	12		-			
Buffer tank		1	55		-	55		-	55		-	55		-			
Dimensions	HxWxD	mm			1,230x1	,290x734			1,450x1,290x734								
Machine weight		kg	180	168	150	241	229	215	271	259	245	274	262	248			
Operation weight		kg	239	171	152	300	232	218	330	262	248	335	265	251			
Sound power level		dBA		67			76		78 78								
Casing	material		Polyester coated galvanised steel plate														
	colour		Ivory white / Munsell code 5Y7.5/1														
Piping connections			1-1/4" 1-1/4" 1-1/4" 1-1/4"														
Safety & functional devices			High pressure switch / Low pressure switch / Discharge temperature control / Outlet water temperature protection / Compressor motor overcurrent / Pump motor overcurrent / Fan thermal protector / Anti-recycling and guard timer / Digital display controller with electronic temperature control / Reverse phase protector / Flowswitch														
Operation range	air side	°C						-15°C	~ 43°C								
Operation range	water side	°C					5°C	(-10°C as	option) ~	25°C							
Power supply		W1						3N~/40	0V/50Hz								

		EL	UWA*16KAZ	zw	EU	JWA*20KAZ	w	EUWA*24KAZW								
Cooling Only			В	Р	N	В	Р	N	В	Р	N					
Nominal capacity	cooling	kW		37.0	I		46.6		55.3							
Nominal input	cooling	kW	1	5.0	15.2	17	7.9	18.1	24	24.0						
EER			2.	.47	2.42	2.0	60	2.57	2.3	30	2.30					
Capacity steps				0~50~100			0~50~100			0~50~100						
Nominal pressure dro	р	kPa		22			22			22						
	type						R-407C									
	charge	kg		2 x 4.6			2 x 5.9			2 x 6.0						
Refrigerant circuit	control		Thermostatic expansion valve													
	oil type		FVC68D													
	oil charge	1		2 x 2.7			2 x 2.7			2 x 2.7						
Compressor	type					Hermetically	Il compressor									
Compressor	no. of circuits/compressors			2/2			2/2		2/2							
Air heat exchanger					Cross fin	coil / Hi-X tul	pes and PE co	bated waffle l	ouvre fins							
Nominal static height	ominal static height unit kPa		187 -			13	37	-	1(-						
Expansion tank		1	1	12	-	1	2	-	1	-						
Buffer tank		1	55		-	55		-	55	-						
Dimensions	HxWxD	mm		1	,321x2,580x7	34			1,541x2,580x734							
Machine weight		kg	460	448	430	520	508	490	526	514	496					
Operation weight		kg	525	457	436	586	518	496	592	524	503					
Sound power level		dBA		79			81		81							
Casing	material		Polyester coated galvanised steel plate													
Casing	colour					lvory white	ode 5Y7.5/1									
Piping connections				2″			2″	2" 2"								
Safety & functional de	evices		Compress	or motor over	rcurrent / Purr	p motor over	current / Fan	thermal prote	Outlet water ector / Anti-rec phase protec	ycling and g	uard timer /					
	air side	°C	-15℃ ~ 43℃													
Operation range	water side	°C				5°C (-10)°C as option) ~ 25°C								
Power supply		W1				31	N~/400V/50	Hz								

Heat Pump			EUV	NY*5KA	ZW	EU	WY*8KA	ZW	EU\	NY*10KA	λZW	EUWY*12KAZW					
neatrump			В	Р	N	В	Р	N	В	Р	N	Р	N				
Nominal capacity	cooling	kW		9.1			17.1			21.0			25.0				
	heating	kW		11.9			18.5			24.0			27.0				
Nominal input	cooling	kW		3.78		7.	46 7.45		8.57		8.57	11	1.4	11.4			
	heating	kW	4.5	9	4.59	7.	10	7.10	9.	10	9.10	10).8	10.8			
EER / COP			2.40/	2.60	2.40/2.60	2.30	/2.60	2.30/2.60	2.45	/2.64	2.45/2.64	2.20	2.20/2.5				
Capacity steps	,			0~100			0~100			0~100							
Nominal pressure drop				10			25			24			33				
		17			29			31			38						
	type					1		R-4	07C								
	charge	kg		4.6			4.7					5.4					
Refrigerant circuit	control						The	mostatic e	· · · · · · · · · · · · · · · · · · ·	valve							
	oil type				_	1		FVC	.68D								
	oil charge	1		1.5			2.7			2.7			2.7				
Compressor	type					1	Hermeti	cally sealed	d scroll co	mpressor							
	no. of circuits/co	ompressors		1/1			1/1			1/1			1/1				
Air heat exchanger					,	Cross fin	coil / Hi->	(tubes and	d PE coate	d waffle l	ouvre fins						
Nominal static height	cooling	kPa	22	-	-	1	71	-		51			18	-			
unit	heating	kPa	20	5	-	10	50	-	1.	27	-	10	00	-			
Expansion tank			12	2	-		2	-		2	-		2	-			
Buffer tank	1	1	55		-	55		-	55		-	55		-			
Dimensions	HxWxD	mm			1,230x1	,290x734					1,450x1,	290x734					
Machine weight		kg	193	181	163	253	241	227	284	272	258	284	272	258			
Operation weight		kg	252	184	165	312	244	230	343	275	261	343	275	261			
Sound power		dBA		67			76			78			78				
Casing	material		Polyester coated galvanised steel plate														
	colour						lvory w	hite / Mur	sell code	5Y7.5/1							
Piping connections			1-1/4" 1-1/4" 1-1/4"														
Safety & functional devic	es		Compre	ssor mot	or overcur	rent / Pum	p motor o	vercurrent	t / Fan the	rmal prote	' Outlet wa ector / Anti e phase pro	i-recycling	and guar	rd timer /			
	air side	°C	Digital display controller with electronic temperature control / Reverse phase protector / Flowswitch Cooling: -15°C ~ 43°C / Heating: -10°C ~ 21°C														
Operation range	°C	Cooling: 5°C (-10°C as option) ~ 25°C / Heating: 35°C ~ 50°C															
Power supply	W1						3N~/40	0V/50Hz									
				EUWY*	16KAZW			EUWY*2	20KAZW		EUWY*24KAZW						
Heat Pump			В		P	N	В		p			F		N			
			34.2			IN IN	D		F	N	B						
ALC: 1 1	cooling	kW		3	4.2	IN	D	-).0	N	В).0				
Nominal capacity	cooling heating	kW kW			4.2 7.0	N	B	40		N	В	50					
				3				40).0	N	6	50).0				
Nominal capacity Nominal input	heating	kW		3	7.0			40	0.0 5.0	N		50 54 22).0 1.0				
	heating cooling	kW kW		3	7.0 4.9 4.2	2.30/2.61		40	5.0 5.3 7.4	N .45/2.64		50 54 22	0.0 4.0 2.8 1.6	2.20/2.50			
Nominal input	heating cooling	kW kW	2.	3 1 1 30/2.61	7.0 4.9 4.2			40 46 16 17	5.0 5.3 7.4			50 52 22 21 .20/2.50	0.0 4.0 2.8 1.6	2.20/2.50			
Nominal input EER / COP Capacity steps	heating cooling	kW kW	2.	3 1 1 30/2.61 0~5(7.0 4.9 4.2			40 46 16 17 2.45/2.64 0~50	0.0 5.0 5.3 7.4			50 52 22 21 20/2.50 0~50	0.0 4.0 2.8 1.6	2.20/2.50			
Nominal input EER / COP	heating cooling heating	kW kW kW	2.	3 1 1 30/2.61 0~50	7.0 4.9 4.2 2 2~100			40 46 16 17 2.45/2.64 0~50 1	0.0 5.0 5.3 7.4 2 1~100			50 52 22 21 .20/2.50 0~50 1	0.0 4.0 2.8 1.6 1~100	2.20/2.50			
Nominal input EER / COP Capacity steps	heating cooling heating cooling	kW kW kW kW	2.	3 1 1 30/2.61 0~50	7.0 4.9 4.2 2 2~100 12			40 46 16 17 .45/2.64 0~50 1 1	2.00 5.0 5.3 7.4 2 2 2			50 52 22 21 .20/2.50 0~50 1	0.0 4.0 2.8 1.6 1~100 9	2.20/2.50			
Nominal input EER / COP Capacity steps	heating cooling heating cooling heating	kW kW kW kW	2.	3 1: 1: 30/2.61 0~5(7.0 4.9 4.2 2 2~100 12			40 46 16 17 2.45/2.64 0~50 1 1 1 R-4	2.0 5.0 5.3 7.4 2 1~100 2 6			50 52 22 21 .20/2.50 0~50 1 2	0.0 4.0 2.8 1.6 1~100 9	2.20/2.50			
Nominal input EER / COP Capacity steps	heating cooling heating cooling heating type	kW kW kW kPa kPa	2.	3 1: 1: 30/2.61 0~5(7.0 4.9 4.2 2 2~100 12 14		2	40 46 16 17 2.45/2.64 0~50 1 1 1 R-4	0.0 5.0 5.3 7.4 2 1~100 2 6 6 07C 0.8	.45/2.64		50 52 22 21 .20/2.50 0~50 1 2	0.0 4.0 2.8 1.6 1~100 9 2	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop	heating cooling heating cooling heating type charge	kW kW kW kPa kPa	2.	3 1: 1: 30/2.61 0~5(7.0 4.9 4.2 2 2~100 12 14		2	40 46 16 17 .45/2.64 0~50 1 1 1 R-4 10 mostatic e	0.0 5.0 5.3 7.4 2 1~100 2 6 6 07C 0.8	.45/2.64		50 52 22 21 .20/2.50 0~50 1 2	0.0 4.0 2.8 1.6 1~100 9 2	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop	heating cooling heating cooling heating heating type charge control	kW kW kW kPa kPa	2.	3 1 30/2.61 0~50	7.0 4.9 4.2 2 2~100 12 14		2	40 46 16 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC	0.0 5.0 5.3 7.4 2 2 - 100 2 6 07C 0.8 expansion	.45/2.64		50 54 222 21 20/2.50 0~50 1 22 20/2.50	0.0 4.0 2.8 1.6 1~100 9 2	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit	heating cooling heating cooling heating type charge control oil type	kW kW kW kPa kPa kPa	2.	3 1 30/2.61 0~50	7.0 4.9 4.2 20~100 12 14 0.2		2 2 The	40 46 16 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC	0.0 5.0 5.3 7.4 1~100 2 6 07C 0.8 expansion 68D 2.7	.45/2.64 valve		50 54 222 21 20/2.50 0~50 1 22 20/2.50	0.0 4.0 2.8 1.6 1~100 9 2 1.2	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop	heating cooling heating cooling heating type charge control oil type oil charge	kW kW kW kPa kPa kPa l	2.	3 1 30/2.61 0~50 1	7.0 4.9 4.2 20~100 12 14 0.2		2 2 The	40 46 16 17 .45/2.64 0~50 1 1 1 1 1 8 .45 2 .45 2 x cally sealed	0.0 5.0 5.3 7.4 1~100 2 6 07C 0.8 expansion 68D 2.7	.45/2.64 valve		50 54 222 21 20/2.50 0~50 11 22 111 22 2 x	0.0 4.0 2.8 1.6 1~100 9 2 1.2	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit	heating cooling heating cooling heating type charge control oil type oil charge type	kW kW kW kPa kPa kPa l	2.	3 1 30/2.61 0~50 1	7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 46 16 17 .45/2.64 0~50 1 1 1 1 1 8 .45 2 .45 2 x cally sealed	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con /2	.45/2.64 valve		50 54 222 21 20/2.50 0~50 11 22 111 22 2 x	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger	heating cooling heating cooling heating type charge control oil type oil charge type	kW kW kW kPa kPa kPa l	2.	3 1 30/2.61 0~50 1	7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 46 16 17 .45/2.64 0~50 1 1 1 1 1 8 .45 2.45 2 x cally sealed 2 2	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con /2	.45/2.64 valve		50 54 222 21 20/2.50 0~50 11 22 111 22 2 x	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co	kW kW kW kPa kPa kPa kg l		3 1 30/2.61 0~50 1 1 2 >	7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 40 16 17 .45/2.64 0~50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 x cally sealed 2 x cally sealed 2 x (tubes and	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con /2	.45/2.64 valve		50 54 22 21 20/2.50 0~50 1 2 2 11 2 2 x	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co	kW kW kW kPa kPa kPa i kg i i kPa kPa	2.	3 1 30/2.61 0~50 1 1 2 > 209	7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 40 16 17 17 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con /2	.45/2.64 valve mpressor id waffle l		50 54 22 21 20/2.50 0~50 11 2 11 2 2 x 2,x 2, 146	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co	kW kW kW kPa kPa kPa i kg i i kPa kPa	2.	3 1 30/2.61 0~5(7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	40 40 46 17 17 17 17 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con /2	.45/2.64 valve mpressor id waffle l		50 54 22 21 20/2.50 0~50 11 2 2 11 2 2 x 2 146 111	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co	kW kW kW kPa kPa kPa l l l kPa kPa kPa kPa l		3 30/2.61 0~5(7.0 4.9 4.2 2~100 12 14 0.2 (2.7	2.30/2.61	There is a contract of the con	40 40 46 17 17 17 17 17 10 17 10 17 10 17 10 17 10 17 10 17 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll coate 2 4 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	.45/2.64 valve mpressor id waffle l - - -		50 54 22 21 20/2.50 0~50 11 2 2 11 2 2 x 2 146 111	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating	kW kW kW kW kPa kg I compressors kPa I I I I I I I I I I I I		3 1 1 30/2.61 0~50 0~50 1 2 2 2 2 2 2 2 2 2 2 2 2 2	7.0 4.9 4.2 2 2 - 10 12 14 0.2 (2.7 2/2 - -	2.30/2.61	There is a contract of the con	40 40 16 17 17 16 17 17 17 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll coate 2 4 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4	.45/2.64 valve mpressor id waffle l - - -	2.	50 52 222 21 20/2.50 0~50 0~50 11 22 11 22 2 11 12 12 146 111 12	0.0 4.0 2.8 1.6 1~100 9 2 1.2 2.7	2.20/2.50			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating	kW kW kW kPa kPa kPa kPa l l bmpressors kPa l kPa l l l l l mm	55	3 1. 1. 30/2.61 0~50 0~50 0~50 1 2 2 2 2 2 2 2 2 2 2 2 2 2	7.0 4.9 4.2 2 2 - 100 12 14 0.2 (2.7) (2	2.30/2.61	2 2 3 3 4 4 5 5 5 5 5	40 40 16 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC 2 x cally sealed 2.4 (tubes and 183 147 12 12	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 expansion 68D 2.7 d scroll con (2 d PE coate 1 4 Coate 1 - - - - - - - - - - - - -	.45/2.64 valve mpressor ed waffle l - - - 1,541x2		50 54 222 21 20/2.50 0~50 0~50 11 2 2 11 12 2 146 111 12 12 12 55	0.0 4.0 2.8 1.6 1.2 2.7 2.7 72	-			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating	kW kW kW kPa kPa kPa kPa l l mmressors kPa kPa l l l mm kg	55	3 1 30/2.61 0~50 	7.0 4.9 4.2 2 2 2 - 14 0.2 (2.7) (2.7) (2.7) (2.7) (2.7) (2.7) (3.7) (2.30/2.61	2 2 3 3 4 4 5 5 5 5 4 6	40 40 16 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC 2 x cally sealed 2.4 (tubes and 183 147 12 12	0.0 5.0 5.3 7.4 2 1~100 2 6 07C 0.8 xxpansion 68D 2.7 d scroll cor /2 d PE coate 1 d PE coate 1 4 4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	.45/2.64 valve mpressor 	2. 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	50 54 222 21 20/2.50 0~50 0~50 11 2 2 11 12 2 146 111 12 12 12 55	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 2.7 72 72 72 72 72 72 72 72 72 72 72 72 72	- - - 516			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating	kW kW kW kPa kPa kPa kPa l l mpressors kPa kPa l kPa l kPa kPa kPa kPa kg kg kg	55	3 1 30/2.61 0~50 	7.0 4.9 4.2 2 2 2 2 2 14 0.2 (2.7) (2.7) (2.7) (2.7) (2.7) (3.7)	2.30/2.61	2 2 3 3 4 4 5 5 5 5 5 5 4 6 12	40 40 40 10 17 .45/2.64 0~50 11 1 1 1 8 44 10 mostatic e FVC 2 x cally sealed 2 x cally sealed 2 x cally sealed 183 147 12 12 55 54	0.0 5.0 5.3 7.4 2 7.4 2 1 2 2 6 07C 2.7 5 2.7 2.7 2.7 2.7 4 scroll corr 2.7 4 scroll corr 2.7 3 scroll corr 2.7 34 44 1 1	.45/2.64 valve mpressor d waffle l - - 1,541x2 516 522	2. 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	50 54 222 21 20/2.50 0~50 11 22 2 11 11 2 2 x 2,x 2,x 146 111 12 12 12 55 54	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 2.7 72 72 72 72 72 72 72 72 72 72 72 72 72	- - - 516			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD	kW kW kW kPa kPa kPa kPa l l mpressors kPa kPa l kPa l kPa kPa kPa kPa kg kg kg	55	3 1 30/2.61 0~50 	7.0 4.9 4.2 2 2 2 2 2 14 0.2 (2.7) (2.7) (2.7) (2.7) (2.7) (3.7)	2.30/2.61	2 2 2 3 3 4 4 4 5 5 5 5 5 5 5 5 4 6 12 2 7 0 12 5 5	40 40 46 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC 2 x cally sealed 2 x cally sealed 2 x cally sealed 183 147 12 12 53 54 8	0.0 5.0 5.3 7.4 2 7.4 2 7.4 2 6 07C 2.7 5.3 4 5.3 7.4 2 2 6 07C 2.7 4 5 07C 2.7 4 5 07C 2.7 100 2.7 100 2.7 100 2.7 100 2.7 100 2.7 100 100 100 100 100 100 100 10	.45/2.64 valve mpressor d waffle l - - 1,541x2 516 522 steel plate	2. 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	50 54 222 21 20/2.50 0~50 11 2 2 2 11 12 2 2 11 10 11 12 12 146 111 12 5 5 5 5 5	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 2.7 72 72 72 72 72 72 72 72 72 72 72 72 72	- - - 516			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD	kW kW kW kPa kPa kPa kPa l l mpressors kPa kPa l kPa l kPa kPa kPa kPa kg kg kg	55	3 1 1 30/2.61 0~50 	7.0 4.9 4.2 2 2 2 2 2 14 14 0.2 (2.7) (2.7) (2.7) (2.7) (2.7) (3.7) (2.30/2.61	2 2 2 3 3 4 4 4 5 5 5 5 5 5 5 5 4 6 12 2 7 0 12 5 5	40 40 46 17 .45/2.64 0~50 1 1 1 1 R-4 10 mostatic e FVC 2 x cally sealed 2 x cally sealed 2 x cally sealed 183 147 12 52 6 54 8 coated ga hite / Mur	0.0 5.0 5.3 7.4 2 7.4 2 7.4 2 6 07C 2.7 5.3 4 5.3 7.4 2 2 6 07C 2.7 4 5 07C 2.7 4 5 07C 2.7 100 2.7 100 2.7 100 2.7 100 2.7 100 2.7 100 100 100 100 100 100 100 10	.45/2.64 valve mpressor d waffle l - - 1,541x2 516 522 steel plate	2. 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	50 54 22 21 20/2.50 0~50 1 2 2 2 11 2 2 2 11 1 2 2 x 2 2 1 146 111 12 12 12 5 3 5 4 8 8	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 2.7 72 72 72 72 72 72 72 72 72 72 72 72 72	- - - 516			
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level Casing	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD	kW kW kW kPa kPa kPa kPa l l mpressors kPa kPa l kPa l kPa kPa kPa kPa kg kg kg	55 485 550	3 3 30/2.61 0~5(7.0 4.9 4.2 2 - 100 12 14 0.2 (2.7 (2.7 (2.7) (2.7) (2.7) (3.7) (2.30/2.61	Length of the second se	40 40 40 10 17 10 50 11 1 1 1 1 1 1 1 1 1 1 1 2 2 3 4 10 7 2 8 6 10 9 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 7.4 2 1~100 2 6 07C 0.8 expansion 668D 2.7 d scroll cord /2 d PE coate 4 d PE coate 34 4 4 4 4 4 4 4 4 4 4 4 4 4	.45/2.64 valve mpressor id waffle l - - 1,541x2 516 522 steel plate 5Y7.5/1 e control / rmal prote	2. 2. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	50 54 222 21 20/2.50 0~50 0~50 1 2 2 11 12 2 2 146 111 12 12 146 111 12 53 54 8 8 2 2 ter tempe i-recycling	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 3.4 4.4 11 				
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level Casing Piping connections	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD material colour	kW kW kW kW kPa kg I kPa kg I mmressors kPa kg i g kPa kg i i i i kg kg kg kg kg	55 485 550	3 3 30/2.61 0~5(7.0 4.9 4.2 2 - 100 12 14 0.2 (2.7 (2.7 (2.7) (2.7) (2.7) (3.7) (2.30/2.61	Length of the second se	40 40 46 17 17 18 10 50 11 11 10 11 11 11 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 12 147 12 147 12 15 15 147 147 147 147 147 147 147 147 147 147	0.0 5.0 5.3 7.4 2 1~100 2 6 0.7C 0.8 expansion 68D 2.7 d scroll cor 68D 2.7 d scroll cor 72 d scroll cor 72 d scroll cor 73 4 1 1 1 1 1 1 1 1 1 1 1 1 1	.45/2.64 valve mpressor id waffle l - - 1,541x2 516 522 steel plate 5Y7.5/1 e control / rmal prote / Reverse	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 54 222 21 20/2.50 0~50 0~50 1 2 2 11 12 2 2 146 111 12 12 146 111 12 53 54 8 8 2 2 ter tempe i-recycling	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 3.4 4.4 11 				
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level Casing Piping connections	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD material colour	kW kW kW kPa kPa kg I kPa kg I kPa kg kBa kg kBa kBa i i i i i i i i i i i i i kg kg i i kg kg kg i i i i	55 485 550	3 3 30/2.61 0~5(7.0 4.9 4.2 0~100 12 14 0.2 (2.7 (2.7) (7) (7) (7) (7) (7) (7) (7) (2.30/2.61 2.30/2.61 Cross fin - - - 455 461 pressure s rent / Pum roller with Coo	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 40 40 10 17 10 52 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 7.4 2 7.4 2 7.4 2 7.4 2 6 0.7 2 0.7 2 0.8 xxpansion 68D 2.7 d scroll col /2 d Scroll col /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	.45/2.64 valve mpressor d waffle l - - 1,541x2 516 522 steel plate 5Y7.5/1 e control / rmal prote // Reverse -10°C ~ 2	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	50 54 222 21 20/2.50 0~50 1 2 2 2 11 2 2 2 11 1 2 2 2 11 1 2 2 2 2 146 111 12 2 2 2 146 111 12 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 3.4 4.4 11 				
Nominal input EER / COP Capacity steps Nominal pressure drop Refrigerant circuit Compressor Air heat exchanger Nominal static height unit Expansion tank Buffer tank Dimensions Machine weight Operation weight Sound power level Casing Piping connections Safety & functional devic	heating cooling heating cooling heating type charge control oil type oil charge type no. of circuits/co cooling heating HxWxD material colour	kW kW kW kW kPa kg I kPa kg I mmressors kPa kg i g kPa kg i i i i kg kg kg kg kg	55 485 550	3 3 30/2.61 0~5(7.0 4.9 4.2 0~100 12 14 0.2 (2.7 (2.7) (7) (7) (7) (7) (7) (7) (7) (2.30/2.61 2.30/2.61 Cross fin - - - 455 461 pressure s rent / Pum roller with Coo	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	40 40 40 10 17 10 10 10 10 10 10 10 10 10 10 10 10 10	0.0 5.0 5.3 7.4 2 7.4 2 7.4 2 7.4 2 7.4 2 6 0.7 2 0.7 2 0.8 xxpansion 68D 2.7 d scroll col /2 d Scroll col /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	.45/2.64 valve mpressor d waffle l - - 1,541x2 516 522 steel plate 5Y7.5/1 e control / rmal prote // Reverse -10°C ~ 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	50 54 222 21 20/2.50 0~50 1 2 2 2 11 2 2 2 11 1 2 2 2 11 1 2 2 2 2 146 111 12 2 2 2 146 111 12 2 2 2 1 2 2 2 1 2 2 2 1 2 2 2 2	0.0 4.0 2.8 1.6 1.2 2.7 2.7 2.7 72 3.4 4.4 11 				

		Unit size															
Option Number	Option description	5	8	8			13	2	16		20		24			Availability	
		B P N	BP	N	B P	Ν	B P	N	B P	N	B	P N	В	Р	Ν		
Not combinable optio	ons																
OPZH	LWE till -5°C	0	0		0		C)	0			С		0		Factory mounted	
OPZL	LWE till -10°C	0	0		0		C)	0			С		0		Factory mounted	
Completely combinab	ole options															·	
OPHF	Fan motor size up 50Pa	0	0		0		C		0			C		0		Factory mounted	
OP10	Evaporator heater tape	0	0		0		C		0			C		0		Factory mounted	
OPHP	Pump size up	0 -	0	-	0	-	0	-	0	-	0	-	0)	-	Factory mounted	
Available kits			· · · ·														
EKGAU5/8KA	Gauges kit 5/8hp	0	0		-		-		-			-		-		Kit	
EKGAU10/12KA	Gauges kit 10/12hp	-	-		0		C		-			-		-		Kit	
EKGAU16KA	Gauges kit 16hp	-	-		-		-		0			-		-		Kit	
EKGAU24KA	Gauges kit 20/24hp	-	-	Ì	-		-		-			С		0		Kit	
EKSS	Soft starter kit	0	0		0		C		-			-		-		Kit	
EKAC10B	Address card for BMS	0	0		0		C		0			C		0		Kit	
EKBMSMBA	Gateway for MODBUS	0	0		0		C		0			C		0		Kit	
EKBMSBNA	Gateway for BACNET	0	0	Ì	0		C		0			C	1	0		Kit	
EKRUMC	Remote user interface	0	0		0		C)	0			2		0		Kit	
EKBT	Buffertank 2001	0	0		0		C)	0			2		0		Kit	

To install EKBMSMBA, EKBMBNA and EKRUMC > EKAC10B needs to be installed on the unit. O : available

- : not available

MEASURING CONDITIONS

- 1. Nominal cooling capacities are based on: evaporator 12°C/7°C ambient 35°C.
- 2. Nominal heating capacities are based on: ambient: 7°CDB/6°CWB; condenser: 40°C/45°C.
- 3. The sound power level is an absolute value indicating the "power" which a sound source generates.



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in

environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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



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

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



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC). Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Certification is valid for air-cooled models <600kW

and water cooled models <1500kW.

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