

2 Specifications

1 - 1 ERGA04-08EV

Technical specifications				EHVH04S18E6V + ERGA04EV	EHVH04S23E6V + ERGA04EV	EHVH08S18E6V + ERGA06EV	EHVH08S23E6V + ERGA06EV	EHVH08S18E6V + ERGA08EV	EHVH08S23E6V + ERGA08EV	
Heating capacity	Nom.		kW	4.30 (1) / 4.60 (2)		6.00 (1) / 5.90 (2)		7.50 (1) / 7.80 (2)		
Power input	Heating	Nom.	kW	0.850 (1) / 1.26 (2)		1.24 (1) / 1.69 (2)		1.63 (1) / 2.23 (2)		
	Domestic hot water from 10°C	Nom.	kWh	2.48	3.01	2.48	3.01	2.48	3.01	
Heat up time from 10°C to 50°C			hr	1h28min	1h40min	1h28min	1h40min	1h28min	1h40min	
COP				5.10 (1) / 3.65 (2)		4.85 (1) / 3.50 (2)		4.60 (1) / 3.50 (2)		
Pump	Nominal ESP unit	Heating	Nom.	kPa	59.6 (1) / 58.6 (2)		52.4 (1) / 52.9 (2)		43.3 (1) / 41.2 (2)	
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	12.3 (1) / 13.2 (2)		17.2 (1) / 16.9 (2)		21.5 (1) / 22.4 (2)	
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
	Water-to-water heat pump			No						
LW(A) Sound power level	Indoor					42				
LW(A) Sound power level (according to EN14825)	Outdoor			58		60		62		

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Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	2,280.0		2,520.0		2,770.0		
	Other	Capacity control		Inverter						
		Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.010						
		Psb (Standby mode)	kW	0.010						
	Pto (Thermostat off)	kW	0.010							
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
		Function to fix water heating during off peak hours		No						
Space heating general	Integrated supplementary heater	Psup	kW	6.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	820	1,267	820	1,267	820	1,267	
		η _{wh} (water heating efficiency)	%	125	133	125	133	125	133	
		Qelec (Daily electricity consumption)	kWh	3.870	5.900	3.870	5.900	3.870	5.900	
		Water heating energy efficiency class		A+						
	Cold climate	AEC (Annual electricity consumption)	kWh	951	1,475	951	1,475	951	1,475	
		η _{wh} (water heating efficiency)	%	107	114	107	114	107	114	
		Qelec (Daily electricity consumption)	kWh	4.480	6.860	4.480	6.860	4.480	6.860	
	Warm climate	AEC (Annual electricity consumption)	kWh	680	1,046	680	1,046	680	1,046	
	Domestic hot water heating	Warm climate	η _{wh} (water heating efficiency)	%	151	161	151	161	151	161
			Qelec (Daily electricity consumption)	kWh	3.220	4.880	3.220	4.880	3.220	4.880

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Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh	3,806		4,441		4,975	
			η_s (Seasonal space heating efficiency) %	127		130			
			Prated at -10°C kW	6.0		7.0		8.0	
			Qhe Annual energy consumption (GCV) GJ	13.7		16.0		17.9	
			SCOP	3.26		3.32			
			Seasonal space heating eff. class			A++			
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0		
				COPd	1.97		1.98		1.96
				Pdh kW	5.3		5.9		6.9
				PERd %	79		78		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0		
				COPd	3.23		3.16		3.20
				Pdh kW	3.3		3.9		4.4
				PERd %	129		126		128
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
				COPd	4.40		4.49		4.64
				Pdh kW	3.0		3.3		
				PERd %	176		180		186
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0		
				COPd	6.10		6.22		
				Pdh kW	3.3		4.1		
				PERd %	244		249		
			Tol (temperature operating limit)	COPd	1.37		1.53		1.64
	Pdh kW	4.0		5.4		7.1			
	PERd %	55		61		66			
	TOL °C			-10					
	WTOL °C			55					
Rated heat output	Psup (at Tdesign -10°C) kW	2.0		1.6		0.9			
Tbiv (bivalent temperature)	COPd	1.97		2.12		1.90			
	Pdh kW	5.3		6.1		7.5			
	PERd %	79		85		76			
	Tbiv °C	-7		-6		-8			
Cold climate water outlet 55°C	General	Annual energy consumption kWh	4,468		5,300		6,886		
		η_s (Seasonal space heating efficiency) %	107		109		112		
		Prated at -22°C kW	5.0		6.0		8.0		

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Space heating	Warm climate water outlet 55°C	General	Annual energy consumption kWh	1,660		1,858		2,213			
			η_s (Seasonal space heating efficiency) %	148		158		161			
			Prated at 2°C kW	4.7		5.6		6.8			
			Average climate water outlet 35°C	General	Annual energy consumption kWh	2,766		3,233		3,625	
					η_s (Seasonal space heating efficiency) %	176				179	
					Prated at -10°C kW	6.0		7.0		8.0	
		Qhe Annual energy consumption (GCV) GJ			9.96		11.6		13.1		
		SCOP			4.48		4.47		4.56		
		Seasonal space heating eff. class					A+++				
		Condition A (-7°CDB/-8°CWB)	Condition	COPd	2.90		2.86		2.77		
				Pdh kW	5.5		6.0		7.0		
				PERd %	116		114		111		
	Condition B (2°CDB/1°CWB)			Condition	Cdh (Degradation heating)			1.0			
					COPd	4.33		4.25		4.35	
					Pdh kW	3.3		3.9		4.2	
	Condition C (7°CDB/6°CWB)	Condition	Cdh (Degradation heating)			1.0					
			COPd	6.19		6.30		6.49			
			Pdh kW	3.2				3.3			
	Condition D (12°CDB/11°CWB)	Condition	PERd %	248		252		260			
			Cdh (Degradation heating)			1.0					
			COPd	7.78				8.52			
	Tol (temperature operating limit)	Tol (temperature operating limit)	Pdh kW	3.3				3.9			
			PERd %	311				341			
			COPd	2.56		2.49		2.41			
Pdh kW			5.2		6.0		6.9				
PERd %			102		100		96				
TOL °C					-10						
Tbiv (bivalent temperature)	Tbiv (bivalent temperature)	WTOL °C			35						
		COPd	2.90		3.07		2.66				
		Pdh kW	5.5		6.1		7.5				
		PERd %	116		123		106				
Rated heat output	Rated heat output	Tbiv °C	-7		-6		-8				
		Psup (at Tdesign -10°C) kW	0.8		1.0		1.1				
Cold climate water outlet 35°C	Cold climate water outlet 35°C	General	Annual energy consumption kWh	3,230		3,749		5,034			
			η_s (Seasonal space heating efficiency) %	150		155		154			
			Prated at -22°C kW	5.0		6.0		8.0			
		Space heating	Warm climate water outlet 35°C	General	Annual energy consumption kWh	1,139		1,276		1,437	
					η_s (Seasonal space heating efficiency) %	241		248		257	
					Prated at 2°C kW	5.2		6.0		7.0	

(1)Condition 1: cooling Ta 35°C - LWE 18°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C)