

Daikin Altherma mid temperature split

Technical Data

ERRA-EW17



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ERRA-EW17

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1 Features

1 - 1 ERRA-EW17

- › Outdoor unit extracts heat from the outdoor air, even at -25°C
- › By heat pump operation only, the outdoor unit delivers a leaving water temperature of 65°C at -15°C ambient temperature
- › By -15°C ambient temperature, the outdoor unit limits heating capacity loss
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a 30% lower refrigerant charge
- › WLAN cartridge included



Guaranteed
operation
down to -25°C



Onecta app

2 Specifications

2 - 1 Specifications

Technical specifications				ELBH12E6V + ERRA08EW17	ELBH12E6V + ERRA10EW17	ELBH12E6V + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F		
Heating capacity	Min.		kW	3.45 (1)		
	Nom.		kW	6.17 (2)		
	Max.		kW	7.95 (1)	9.25 (1)	9.97 (1)
Power input	Heating Min.		kW	0.70 (5)		
	Nom.		kW	1.21 (2)		
	Max.		kW	1.63 (5)	1.98 (5)	2.21 (5)
COP				5.10 (2)		
Pump	Type			Grundfos UPM4L K 15-75 130 9 DK1		
	Nomi- nal ESP unit	Heating	kPa	67.9 (7)		
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3		
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark		Daikin Europe N.V.		
	Product	Air-to-water heat pump		Yes		
	de-	Brine-to-water heat pump		No		
	scrip-	Heat pump combination heater		Yes		
	tion	Low-temperature heat pump		No		
		Supplementary heater integrated		Yes		
		Water-to-water heat pump		No		
	LW(A) Sound power level (according to EN14825)	dB(A)	dB(A)	44.0		
	LW(A) Sound power level (according to EN14825)	dB(A)	dB(A)	56.0		
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	3,542		
		Capacity control		Inverter		
	Other	Pck (Crankcase heater mode)	kW	0.000		
		Poff (Off mode)	kW	0.027		
		Psb (Standby mode)	kW	0.027		
		Pto (Thermostat off)	kW	0.024		
		Psup	kW	6.0		
	Inte- grated supple- men- tary heater	Type of energy input		Electrical		
	Average climate water outlet 55°C	General Annual energy consumption	kWh	7,541	7,522	7,309
		ηs (Seasonal space heating efficiency)	%	134		138
		Prated at -10°C	kW		12.5	
		Qhe Annual energy consumption (GCV)	Gj	27		26
		SCOP		3.42	3.43	3.53

2 Specifications

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Technical specifications			ELBH12E6V + ERRA08EW17		ELBH12E6V + ERRA10EW17		ELBH12E6V + ERRA12EW17			
 Space heating	Average climate water outlet 55°C	General	Seasonal space heating eff. class		A++					
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.23					
			Pdh	kW	5.2					
			PERd	%	249.2					
		Tol (temperature operating limit)	COPd		2.04		2.06			
			Pdh	kW	6.9		8.2			
			PERd	%	81.6		82.4			
			TOL	°C	-10					
			WTOL	°C	55					
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	5.6			4.3		
		Tbiv (bivalent temperature)	COPd				2.90		2.48	
			Pdh	kW			8.5		10.0	
			PERd	%			116.0		99.2	
			Tbiv	°C			-2		-5	
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,088		6,950		6,921		
		ηs (Seasonal space heating efficiency)	%	122		125				
		Prated at -22°C	kW	9.0						
		Qhe Annual energy consumption (GCV)	Gj	26		25				
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0						
		COPd		2.61						
		Pdh	kW	5.2						
		PERd	%	104.2		104.4				
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					

2 Specifications

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Technical specifications				ELBH12E6V + ERRA08EW17	ELBH12E6V + ERRA10EW17	ELBH12E6V + ERRA12EW17
Space heating Cold climate water outlet 55°C	B Condition (2°CDB)	Pdh	kW	3.3		
		PERd	%	156.0		
	C Condition (7°CDB)	Cdh (Degradation heating)		1.0		
		COPd		4.96		
	B/6°CWB)	Pdh	kW	3.4		
		PERd	%	198.3		
	D Condition (12°CDB)	COPd		6.56		
		Pdh	kW	4.2		
	B/11°CWB)	PERd	%	262.5		
		Tol		1.49	1.56	1.62
	(tem- per- ature oper- ating limit)	Pdh	kW	4.9	6.1	7.2
		PERd	%	59.6	62.3	64.7
		TOL	°C	-22		
		WTOL	°C	55		
	G Condition (-15°CDB/-)	COPd		2.00	2.03	
		Pdh	kW	6.0	7.2	
	Tbiv (biva- lent tem- pera- ture)	PERd	%	80.0	81.2	
		COPd		2.25	2.03	
		Pdh	kW	6.6	7.2	
		PERd	%	90.0	81.2	
		Tbiv	°C	-12	-15	
		Rated heat output supplementary capacity				
	General	Psup (at Tdesign -22°C)	kW	4.1	2.9	1.8
		Annual energy consumption	kWh	2,972		
Warm climate water outlet 55°C		ηs (Seasonal space heating efficiency)	%	170		
		Prated at 2°C	kW	9.6		
		Qhe Annual energy consumption (GCV)	Gj	11		
		Cdh (Degradation heating)		1.0		
	B Condition (2°CDB)	COPd		2.66		
		Pdh	kW	8.0		
		PERd	%	106.5		
		Cdh (Degradation heating)		1.0		
	C Condition (7°CDB)	COPd		3.79		
		Pdh	kW	6.7		
		PERd	%	151.5		
		Cdh (Degradation heating)		1.0		
	D Condition (12°CDB)	COPd		5.87		
		Pdh	kW	3.6		

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Technical specifications				ELBH12E6V + ERRA08EW17	ELBH12E6V + ERRA10EW17	ELBH12E6V + ERRA12EW17	
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	PERd	%	234.9		
		Tbiv	COPd		3.13		
		(bivalent temperature)	Pdh	kW	8.4		
			PERd	%	125.4		
		Tbiv	°C	4			
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,561	3,539	
			ηs (Seasonal space heating efficiency)	%	190	191	
			Prated at -10°C	kW	8.3		
			Qhe Annual energy consumption (GCV)	Gj	13		
			SCOP		4.81	4.84	
Seasonal space heating eff. class				A+++			
A Condition (-7°CDB/6°CWB)		COPd		3.20			
		Pdh	kW	7.5			
		PERd	%	128.0			
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0			
	COPd		4.93				
	Pdh	kW	4.4				
C Condition (7°CDB/6°CWB)	PERd	%	197.2				
	Cdh (Degradation heating)		1.0				
	COPd		6.37				
D Condition (12°CDB/11°CWB)	Pdh	kW	4.3				
	PERd	%	254.8				
	Cdh (Degradation heating)		1.0				
Tol (temperature operating limit)	COPd		8.13				
	Pdh	kW	6.6				
	PERd	%	325.2				
	COPd		2.90	2.86			
	Pdh	kW	6.9	8.1			
	PERd	%	116.0	114.4			
	TOL	°C	-10				
	WTOL	°C	35				
	Tbiv	COPd	3.20	2.86			
(bivalent temperature)	Pdh	kW	7.5	8.1			
	PERd	%	128.0	114.4			
	Tbiv	°C	-7	-10			
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4	0.0		
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394	5,239	5,224	

2 Specifications

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Technical specifications				ELBH12E6V + ERRA08EW17	ELBH12E6V + ERRA10EW17	ELBH12E6V + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	162	166	167
			Prated at -22°C		9	
			Q _{he} Annual energy consumption (GCV)	19.4	18.9	18.8
			A Condition COPd		3.48	
			(-7°CDB/-8°CWB) Pdh		5.4	
			B Condition PERd		139.2	
			(2°CDB/7°CWB) Cdh (Degradation heating)		1.0	
			COPd		5.40	
			Pdh		3.6	
			PERd		216.0	
			C Condition Cdh (Degradation heating)		1.0	
			(7°CDB/16°CWB) COPd		6.53	
			Pdh		5.3	
			PERd		261.2	
			D Condition Cdh (Degradation heating)		1.0	
			(12°CDB/11°CWB) COPd		7.98	
			Pdh		6.6	
			PERd	319.0	319.2	
			Tol COPd	2.11	2.14	2.16
			Pdh	4.9	5.9	6.5
			PERd	84.3	85.6	86.4
			TOL		-22	
			WTOL		35	
Space heating 	Warm climate water outlet 35°C	General	G Condition COPd	2.68	2.64	
			(-15°CDB/-) Pdh	6.0	7.0	
			PERd	107.1	105.6	
			Tbiv COPd	2.95	2.64	
			(bivalent) Pdh	6.5	7.0	
			PERd	118.1	105.6	
			Tbiv	-12	-15	
			Rated heat output supplementary capacity			
			Psup (at Tdesign -22°C)	4.1	3.1	2.6
			Annual energy consumption		1,993	
			η _s (Seasonal space heating efficiency)		228	
			Prated at 2°C		8.6	
			Q _{he} Annual energy consumption (GCV)		7	
			B Condition Cdh (Degradation heating)		1.0	
			(2°CDB/7°CWB) COPd		4.17	
			Pdh		6.8	
			PERd		166.8	
			C Condition Cdh (Degradation heating)		1.0	
			(7°CDB/16°CWB) COPd		5.85	
			Pdh		5.5	
			PERd		234.0	
			Tbiv COPd		4.89	
			(bivalent) Pdh		6.8	
			PERd		195.6	
			Tbiv		5	
			D Condition Cdh (Degradation heating)		1.0	
			(12°CDB/11°CWB) COPd		7.78	
			Pdh		6.1	
			PERd		311.2	

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications				ELBH12E9W + ERRA08EW17	ELBH12E9W + ERRA10EW17	ELBH12E9W + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F		

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Technical specifications				ELBH12E9W + ERRA08EW17		ELBH12E9W + ERRA10EW17		ELBH12E9W + ERRA12EW17			
Heating capacity	Min.	kW		3.45 (1)							
	Nom.	kW		6.17 (2)							
	Max.	kW		7.95 (1)		9.25 (1)		9.97 (1)			
Power input	Heating	Min.	kW		0.70 (5)						
		Nom.	kW		1.21 (2)						
		Max.	kW		1.63 (5)		1.98 (5)		2.21 (5)		
COP				5.10 (2)							
Pump	Type			Grundfos UPM4L K 15-75 130 9 DK1							
	Nomi- nal ESP unit	Heating	kPa		67.9 (7)						
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min		18.3					
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium							
		Name or trademark		Daikin Europe N.V.							
	Product de- scrip- tion	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 (according to EN14825)	dB(A)	dBA		44.0						
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA		56.0						
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)		m³/h		3,542					
	Other	Capacity control				Inverter					
		Pck (Crankcase heater mode)		kW		0.000					
		Poff (Off mode)		kW		0.027					
		Psb (Standby mode)		kW		0.027					
		Pto (Thermostat off)		kW		0.024					
	Inte- grated supple- men- tary heater	Psup		kW		9.0					
		Type of energy input				Electrical					
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,541		7,522		7,309		
			ηs (Seasonal space heating efficiency)	%	134				138		
			Prated at -10°C	kW	12.5						
			Qhe Annual energy consumption (GCV)	Gj	27				26		
			SCOP		3.42		3.43		3.53		

2 Specifications

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Technical specifications			ELBH12E9W + ERRA08EW17		ELBH12E9W + ERRA10EW17		ELBH12E9W + ERRA12EW17			
 Space heating	Average climate water outlet 55°C	General	Seasonal space heating eff. class	A++						
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0						
			COPd	2.34						
			Pdh kW	7.6						
			PERd %	93.6						
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	3.50						
			Pdh kW	6.8						
			PERd %	140.0						
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)	1.0						
			COPd	5.07						
			Pdh kW	4.5						
			PERd %	202.8						
		D Condition (12°CDB/-1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	6.23						
			Pdh kW	5.2						
			PERd %	249.2						
		Tol (temperature operating limit)	COPd	2.04			2.06			
			Pdh kW	6.9			8.2			
			PERd %	81.6			82.4			
			TOL °C	-10						
			WTOL °C	55						
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	5.6			4.3			
		Tbiv (bivalent temperature)	COPd			2.90				2.48
			Pdh kW			8.5				10.0
			PERd %			116.0				99.2
			Tbiv °C			-2				-5
Cold climate water outlet 55°C	General	Annual energy consumption kWh	7,088			6,950			6,921	
		ηs (Seasonal space heating efficiency) %	122			125				
		Prated at -22°C kW	9.0							
		Qhe Annual energy consumption (GCV) GJ	26			25				
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0							
		COPd	2.61							
		Pdh kW	5.2							
		PERd %	104.2			104.4				
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	3.90						

2 Specifications

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Technical specifications				ELBH12E9W + ERRA08EW17	ELBH12E9W + ERRA10EW17	ELBH12E9W + ERRA12EW17
Space heating Cold climate water outlet 55°C	B Condition (2°CDB)	Pdh	kW	3.3		
		PERd	%	156.0		
	C Condition (7°CDB)	CdH (Degradation heating)		1.0		
		COPd		4.96		
	B (6°CWB)	Pdh	kW	3.4		
		PERd	%	198.3		
	D Condition (12°CDB)	COPd		6.56		
		Pdh	kW	4.2		
	B (11°CWB)	PERd	%	262.5		
		TOL	°C	-22		
	Tol (temperature operating limit)	COPd		1.49	1.56	1.62
		Pdh	kW	4.9	6.1	7.2
	Tbiv (bivalent temperature)	PERd	%	59.6	62.3	64.7
		WTOL	°C	55		
	G Condition (-15°CDB)	COPd		2.00	2.03	
		Pdh	kW	6.0	7.2	
	Tbiv (bivalent temperature)	PERd	%	80.0	81.2	
		COPd		2.25	2.03	
	Tbiv (bivalent temperature)	Pdh	kW	6.6	7.2	
		PERd	%	90.0	81.2	
	Rated heat output supplementary capacity	Tbiv	°C	-12	-15	
		Psup (at Tdesign -22°C)	kW	4.1	2.9	1.8
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,972		
		ηs (Seasonal space heating efficiency)	%	170		
		Prated at 2°C	kW	9.6		
		Qhe Annual energy consumption (GCV)	Gj	11		
	B Condition (2°CDB)	CdH (Degradation heating)		1.0		
		COPd		2.66		
		Pdh	kW	8.0		
	C Condition (7°CDB)	CdH (Degradation heating)		1.0		
		COPd		3.79		
		Pdh	kW	6.7		
	D Condition (12°CDB)	CdH (Degradation heating)		1.0		
		COPd		5.87		
		Pdh	kW	3.6		

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Technical specifications				ELBH12E9W + ERRA08EW17	ELBH12E9W + ERRA10EW17	ELBH12E9W + ERRA12EW17	
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	PERd	%	234.9		
		Tbiv	COPd		3.13		
		(bivalent temperature)	Pdh	kW	8.4		
			PERd	%	125.4		
		Tbiv	°C	4			
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,561	3,539		
		ηs (Seasonal space heating efficiency)	%	190	191		
		Prated at -10°C	kW	8.3			
		Qhe Annual energy consumption (GCV)	Gj	13			
		SCOP		4.81	4.84		
		Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB/6°CWB)	COPd		3.20		
	Pdh		kW	7.5			
	PERd		%	128.0			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
		COPd		4.93			
		Pdh	kW	4.4			
	C Condition (7°CDB/6°CWB)	PERd	%	197.2			
		Cdh (Degradation heating)		1.0			
		COPd		6.37			
	D Condition (12°CDB/11°CWB)	Pdh	kW	4.3			
		PERd	%	254.8			
		Cdh (Degradation heating)		1.0			
	Tol (temperature operating limit)	COPd		8.13			
Pdh		kW	6.6				
PERd		%	325.2				
Tol (temperature operating limit)	COPd		2.90	2.86			
	Pdh	kW	6.9	8.1			
	PERd	%	116.0	114.4			
Tol (temperature operating limit)	TOL	°C	-10				
	WTOL	°C	35				
	Tbiv	COPd		3.20	2.86		
Tol (temperature operating limit)	Pdh	kW	7.5	8.1			
	PERd	%	128.0	114.4			
	Tbiv	°C	-7	-10			
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4	0.0			
	General	Annual energy consumption	kWh	5,394	5,239	5,224	
Cold climate water outlet 35°C							

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Technical specifications				ELBH12E9W + ERRA08EW17	ELBH12E9W + ERRA10EW17	ELBH12E9W + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	162	166	167
			Prated at -22°C	9		
			Q _{he} Annual energy consumption (GCV)	19.4	18.9	18.8
			A Condition COPd	3.48		
			(-7°CDB/-8°CWB) Pdh	5.4		
			B Condition PERd	139.2		
			(2°CDB/1°CWB) Cdh (Degradation heating)	1.0		
			COPd	5.40		
			Pdh	3.6		
			PERd	216.0		
			C Condition Cdh (Degradation heating)	1.0		
			(7°CDB/6°CWB) COPd	6.53		
			Pdh	5.3		
			PERd	261.2		
			D Condition Cdh (Degradation heating)	1.0		
			(12°CDB/11°CWB) COPd	7.98		
			Pdh	6.6		
			PERd	319.0	319.2	
			Tol COPd	2.11	2.14	2.16
			Pdh	4.9	5.9	6.5
			PERd	84.3	85.6	86.4
			TOL	-22		
			WTOL	35		
	Warm climate water outlet 35°C	General	G Condition COPd	2.68	2.64	
			(-15°CDB/-) Pdh	6.0	7.0	
			PERd	107.1	105.6	
			Tbiv COPd	2.95	2.64	
			(bivalent) Pdh	6.5	7.0	
			PERd	118.1	105.6	
			Tbiv	-12	-15	
			Rated heat output supplementary capacity	4.1	3.1	2.6
			Annual energy consumption	1,993		
			η _s (Seasonal space heating efficiency)	228		
			Prated at 2°C	8.6		
			Q _{he} Annual energy consumption (GCV)	7		
			B Condition Cdh (Degradation heating)	1.0		
			(2°CDB/1°CWB) COPd	4.17		
			Pdh	6.8		
			PERd	166.8		
			C Condition Cdh (Degradation heating)	1.0		
			(7°CDB/6°CWB) COPd	5.85		
			Pdh	5.5		
			PERd	234.0		
			Tbiv COPd	4.89		
			(bivalent) Pdh	6.8		
			PERd	195.6		
			Tbiv	5		
			D Condition Cdh (Degradation heating)	1.0		
			(12°CDB/11°CWB) COPd	7.78		
			Pdh	6.1		
			PERd	311.2		

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (dT = 5°C) |

(3)Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |

(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications		ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Energy Efficiency Range		Space Heating A+++ ~ D, Water Heating A+ ~ F		

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Technical specifications			ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Heating capacity	Min.	kW	3.45 (1)		
	Nom.	kW	6.17 (2)		
	Max.	kW	7.95 (1)	9.25 (1)	9.97 (1)
Cooling capacity	Nom.	kW	6.81 (3) / 6.47 (4)	7.97 (3) / 6.47 (4)	8.62 (3) / 6.47 (4)
Power input	Heating Min.	kW	0.70 (5)		
	Nom.	kW	1.21 (2)		
	Max.	kW	1.63 (5)	1.98 (5)	2.21 (5)
	Cooling Nom.	kW	2.08 (3) / 1.13 (4)	2.57 (3) / 1.13 (4)	2.86 (3) / 1.13 (4)
COP			5.10 (2)		
EER			3.28 (3) / 5.75 (4)	5.75 (4)	3.01 (3) / 5.75 (4)
Pump	Type		Grundfos UPM4L K 15-75 130 9 DK1		
	Nomi- nal ESP unit	Heating kPa	67.9 (7)		
Water side Heat exchanger	Water flow rate	Heating Nom. l/min	18.3		
General	Sup- plier/ Manu- facturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark	Daikin Europe N.V.		
	Product	Air-to-water heat pump	Yes		
	de-	Brine-to-water heat pump	No		
	scrip- tion	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 (according to EN14825)	dB(A)	44.0		
	LW(A) Sound power level (according to EN14825)	dB(A)	56.0		
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating 	Air to water unit	Rated airflow (outdoor)	m ³ /h		
		Capacity control	Inverter		
	Other	Pck (Crankcase heater mode)	kW		
		Poff (Off mode)	kW		
		Psb (Standby mode)	kW		
		Pto (Thermostat off)	kW		
	Inte- grated supple- men- tary heater	Psup	kW		
		Type of energy input	Electrical		
	Average climate water outlet 55°C	General Annual energy consumption	kWh		
		ns (Seasonal space heating efficiency)	%		

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Technical specifications				ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Space heating Average climate water outlet 55°C	General	Prated at -10°C	kW		12.5	
		SCOP			3.58	
		Seasonal space heating eff. class			A++	
		A Condition Cd _h (Degradation heating)			1.0	
		(-7°C/-				
		8°CWB)			2.34	
		COP _d				
		Pd _h	kW		7.6	
		PER _d	%		93.6	
		B Condition Cd _h (Degradation heating)			1.0	
		(2°C/-				
		8°CWB)			3.50	
		COP _d				
		Pd _h	kW		6.8	
		PER _d	%		140.0	
		C Condition Cd _h (Degradation heating)			1.0	
		(7°C/-				
		8°CWB)			5.07	
		COP _d				
		Pd _h	kW		4.5	
		PER _d	%		202.8	
		D Condition Cd _h (Degradation heating)			1.0	
		(12°C/-				
		8°CWB)			6.23	
		COP _d				
		Pd _h	kW		5.2	
		PER _d	%		249.2	
Cold climate water outlet 55°C	General	Tol			2.06	
		(tem- per- ature oper- ating limit)				
		Pd _h	kW		8.2	
		PER _d	%		82.4	
		TOL	°C		-10	
		WTOL	°C		55	
		Rated heat output supplementary capacity				
		Psup (at Tdesign -10°C)	kW		4.3	
		Tbiv				
		(biva- lent tem-)				
		COP _d			2.06	
		Pd _h	kW		8.2	
		PER _d	%		82.4	
		Tbiv	°C		-5	
		Annual energy consumption	kWh	7,028	6,890	6,861
		η _s (Seasonal space heating efficiency)	%	123	126	
		Prated at -22°C	kW		9.0	
		Q _{he} Annual energy consumption (GCV)	Gj		25	
		A Condition Cd _h (Degradation heating)			1.0	
		(-7°C/-				
		8°CWB)			2.61	
		COP _d				
		Pd _h	kW		5.2	
		PER _d	%	104.2	104.4	

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Technical specifications			ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB)	Cd _h (Degradation heating)		
			COP _d		
			Pd _h kW		
			PER _d %		
		C Condition (7°CDB)	Cd _h (Degradation heating)		
			COP _d		
			Pd _h kW		
			PER _d %		
		D Condition (12°CDB)	COP _d		
			Pd _h kW		
			PER _d %		
		Tol (temperature operating limit)	COP _d		
			Pd _h kW		
			PER _d %		
			TOL °C		
			WTOL °C		
		G Condition (-15°CDB/4)	COP _d		
			Pd _h kW		
			PER _d %		
		T _{biv} (bivalent temperature)	COP _d		
			Pd _h kW		
			PER _d %		
			T _{biv} °C		
		Rated heat output supplementary capacity	P _{sup} (at T _{design} -22°C) kW		
	Warm climate water outlet 55°C	General	Annual energy consumption kWh		
			η _s (Seasonal space heating efficiency) %		
			Prated at 2°C kW		
			Q _{he} Annual energy consumption (GCV) GJ		
		B Condition (2°CDB)	Cd _h (Degradation heating)		
			COP _d		
			Pd _h kW		
			PER _d %		
		C Condition (7°CDB)	Cd _h (Degradation heating)		
			COP _d		
			Pd _h kW		
			PER _d %		
		D Condition (12°CDB)	Cd _h (Degradation heating)		
			COP _d		

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Technical specifications				ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB)	COPd			5.87
			Pdh			3.6
		B (11°CWB)	PERd			234.9
		Tbiv	COPd			3.13
		(bivalent)	Pdh			8.4
			PERd			125.4
		tem-	Tbiv			4
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,462		3,440
		ηs (Seasonal space heating efficiency)	%	195		196
		Prated at -10°C	kW			8.3
		Qhe Annual energy consumption (GCV)	Gj			12
		SCOP		4.95		4.98
		Seasonal space heating eff. class				A+++
A Condition (-7°CDB)		COPd				3.20
		Pdh	kW			7.5
B Condition (2°CDB)		PERd	%			128.0
		Cdh (Degradation heating)				1.0
		COPd				4.93
		Pdh	kW			4.4
		PERd	%			197.2
		Cdh (Degradation heating)				1.0
C Condition (7°CDB)		COPd				6.37
		Pdh	kW			4.3
		PERd	%			254.8
		Cdh (Degradation heating)				1.0
D Condition (12°CDB)		COPd				8.13
		Pdh	kW			6.6
		PERd	%			325.2
		Cdh (Degradation heating)				1.0
Tol (temperature operating limit)		COPd		2.90		2.86
		Pdh	kW	6.9		8.1
		PERd	%	116.0		114.4
		TOL	°C			-10
		WTOL	°C			35
Tbiv (bivalent)		COPd		3.20		2.86
		Pdh	kW	7.5		8.1
		PERd	%	128.0		114.4
		Tbiv	°C	-7		-10

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Technical specifications				ELBX12E6V + ERRA08EW17	ELBX12E6V + ERRA10EW17	ELBX12E6V + ERRA12EW17
Space heating	Average climate water outlet 35°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4	0.0
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,334	5,180	5,165
		ηs (Seasonal space heating efficiency)	%	163	168	169
		Prated at -22°C	kW	9		
		Qhe Annual energy consumption (GCV)	Gj	19.2	18.6	
	A Condition (-7°CDB/-8°CWB)	COPd		3.48		
		Pdh	kW	5.4		
	B Condition (2°CDB/-7°CWB)	PERd	%	139.2		
		Cdh (Degradation heating)		1.0		
		COPd		5.40		
		Pdh	kW	3.6		
		PERd	%	216.0		
		Cdh (Degradation heating)		1.0		
	C Condition (7°CDB/6°CWB)	COPd		6.53		
		Pdh	kW	5.3		
		PERd	%	261.2		
		Cdh (Degradation heating)		1.0		
	D Condition (12°CDB/11°CWB)	COPd		7.98		
		Pdh	kW	6.6		
		PERd	%	319.0	319.2	
		COPd		2.11	2.14	2.16
Tol (temperature operating limit)		Pdh	kW	4.9	5.9	6.5
		PERd	%	84.3	85.6	86.4
		TOL	°C	-22		
		WTOL	°C	35		
	G Condition (-15°CDB/-)	COPd		2.68	2.64	
		Pdh	kW	6.0	7.0	
		PERd	%	107.1	105.6	
		COPd		2.95	2.64	
Tbiv (bivalent temperature)		Pdh	kW	6.5	7.0	
		PERd	%	118.1	105.6	
		Tbiv	°C	-12	-15	
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	4.1	3.1
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,873		
		ηs (Seasonal space heating efficiency)	%	242		
		Prated at 2°C	kW	8.6		
		Qhe Annual energy consumption (GCV)	Gj	7		
	B Condition (2°CDB/-7°CWB)	Cdh (Degradation heating)		1.0		
		COPd		4.17		
		Pdh	kW	6.8		
		PERd	%	166.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
		COPd		5.85		
		Pdh	kW	5.5		
		PERd	%	234.0		
	Tbiv (bivalent temperature)	COPd		4.89		
		Pdh	kW	6.8		
		PERd	%	195.6		
		Tbiv	°C	5		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
		COPd		7.78		
		Pdh	kW	6.1		
		PERd	%	311.2		

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Cooling: EW 12°C; MW 7°C; ambient conditions: 35°CDB |

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(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(7)DB/WB 7°C/6°C - IWC 35°C (dT=5°C) with pump at full speed

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Technical specifications				ELBX12E9W + ERRA08EW17	ELBX12E9W + ERRA10EW17	ELBX12E9W + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F		
Heating capacity	Min.		kW	3.45 (1)		
	Nom.		kW	6.17 (2)		
	Max.		kW	7.95 (1)	9.25 (1)	9.97 (1)
Cooling capacity	Nom.		kW	6.81 (3) / 6.47 (4)	7.97 (3) / 6.47 (4)	8.62 (3) / 6.47 (4)
Power input	Heating Min.		kW	0.70 (5)		
	Nom.		kW	1.21 (2)		
	Max.		kW	1.63 (5)	1.98 (5)	2.21 (5)
	Cooling Nom.		kW	2.08 (3) / 1.13 (4)	2.57 (3) / 1.13 (4)	2.86 (3) / 1.13 (4)
				5.10 (2)		
COP				3.28 (3) / 5.75 (4)		
EER				5.75 (4)		
Pump	Type			Grundfos UPM4L K 15-75 130 9 DK1		
	Nominal ESP unit	Heating	kPa	67.9 (7)		
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3		
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 (according to EN14825)	dB(A)	dB(A)	44.0		
	LW(A) Sound power level (according to EN14825)	dB(A)	dB(A)	56.0		
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	3,542		
		Capacity control		Inverter		
	Other	Pck (Crankcase heater mode)	kW	0.000		
		Poff (Off mode)	kW	0.027		
		Psb (Standby mode)	kW	0.027		
		Pto (Thermostat off)	kW	0.024		
		Psup	kW	9.0		
	Integrated supplementary heater	Type of energy input		Electrical		
Space heating	Average climate water outlet 55°C	General Annual energy consumption	kWh	7,210		
		ηs (Seasonal space heating efficiency)	%	140		

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Technical specifications			ELBX12E9W + ERRA08EW17	ELBX12E9W + ERRA10EW17	ELBX12E9W + ERRA12EW17
Space heating water outlet 55°C	Average climate A Condition (-7°CDB/-8°CWB) B Condition (2°CDB/7°CWB) C Condition (7°CDB/16°CWB) D Condition (12°CDB/17°CWB) Tol (temperature operating limit) Rated heat output supplementary capacity Cold climate water outlet 55°C	General	Prated at -10°C kW	12.5	
			SCOP	3.58	
			Seasonal space heating eff. class	A++	
			Cdh (Degradation heating)	1.0	
			COPd	2.34	
			Pdh kW	7.6	
			PERd %	93.6	
			Cdh (Degradation heating)	1.0	
			COPd	3.50	
			Pdh kW	6.8	
			PERd %	140.0	
			Cdh (Degradation heating)	1.0	
			COPd	5.07	
			Pdh kW	4.5	
			PERd %	202.8	
			Cdh (Degradation heating)	1.0	
			COPd	6.23	
			Pdh kW	5.2	
			PERd %	249.2	
			COPd	2.06	
			Pdh kW	8.2	
			PERd %	82.4	
			TOL °C	-10	
			WTOL °C	55	
			Psup (at Tdesign -10°C) kW	4.3	
			COPd	2.06	
			Pdh kW	8.2	
			PERd %	82.4	
			Tbiv °C	-5	
		General	Annual energy consumption kWh	7,028	6,861
			ηs (Seasonal space heating efficiency) %	123	126
			Prated at -22°C kW	9.0	
			Qhe Annual energy consumption (GCV) GJ	25	
			Cdh (Degradation heating)	1.0	
			COPd	2.61	
			Pdh kW	5.2	
			PERd %	104.2	104.4

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Technical specifications			ELBX12E9W + ERRA08EW17	ELBX12E9W + ERRA10EW17	ELBX12E9W + ERRA12EW17
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB) Cd _h (Degradation heating)	1.0		
		COP _d	3.90		
		B/11°CWB) Pd _h kW	3.3		
		PER _d %	156.0		
		C Condition (7°CDB) Cd _h (Degradation heating)	1.0		
		COP _d	4.96		
		B/16°CWB) Pd _h kW	3.4		
		PER _d %	198.3		
		D Condition (12°CDB) COP _d	6.56		
		Pd _h kW	4.2		
		PER _d %	262.5		
		Tol COP _d	1.49	1.56	1.62
	Warm climate water outlet 55°C	Pd _h kW	4.9	6.1	7.2
		PER _d %	59.6	62.3	64.7
		TOL °C	-22		
		WTOL °C	55		
		G Condition (-15°CDB) COP _d	2.00	2.03	
		Pd _h kW	6.0	7.2	
		PER _d %	80.0	81.2	
		Tbiv COP _d	2.25	2.03	
		Pd _h kW	6.6	7.2	
		PER _d %	90.0	81.2	
		Tbiv °C	-12	-15	
		Rated heat output supplementary capacity P _{sup} (at T _{design} -22°C) kW	4.1	2.9	1.8
	General	Annual energy consumption kWh	2,853		
		η _s (Seasonal space heating efficiency) %	177		
		Prated at 2°C kW	9.6		
		Q _{he} Annual energy consumption (GCV) GJ	10		
		B Condition (2°CDB) Cd _h (Degradation heating)	1.0		
		COP _d	2.66		
		B/11°CWB) Pd _h kW	8.0		
		PER _d %	106.5		
		C Condition (7°CDB) Cd _h (Degradation heating)	1.0		
		COP _d	3.79		
		B/16°CWB) Pd _h kW	6.7		
		PER _d %	151.5		
		D Condition (12°CDB) Cd _h (Degradation heating)	1.0		

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Technical specifications				ELBX12E9W + ERRA08EW17	ELBX12E9W + ERRA10EW17	ELBX12E9W + ERRA12EW17
Space heating	Warm climate water outlet 55°C (bivalent temperature)	D Condition (12°CDB)	COPd		5.87	
			Pdh	kW	3.6	
		B/11°CWB	PERd	%	234.9	
		Tbiv	COPd		3.13	
			Pdh	kW	8.4	
			PERd	%	125.4	
			Tbiv	°C	4	
		Average climate water outlet 35°C	General Annual energy consumption	kWh	3,462	3,440
			ηs (Seasonal space heating efficiency)	%	195	196
			Prated at -10°C	kW	8.3	
			Qhe Annual energy consumption (GCV)	Gj	12	
	A Condition (-7°CDB) B/4-8°CWB B Condition (2°CDB) B/1°CWB C Condition (7°CDB) B/6°CWB D Condition (12°CDB) B/11°CWB	SCOP		4.95	4.98	
		Seasonal space heating eff. class			A+++	
		A Condition (-7°CDB)	COPd		3.20	
			Pdh	kW	7.5	
		B/4-8°CWB	PERd	%	128.0	
			Cdh (Degradation heating)		1.0	
		B Condition (2°CDB)	COPd		4.93	
			Pdh	kW	4.4	
		B/1°CWB	PERd	%	197.2	
			Cdh (Degradation heating)		1.0	
	C Condition (7°CDB) B/6°CWB D Condition (12°CDB) B/11°CWB Tol (temperature operating limit) Tbiv (bivalent temperature)	C Condition (7°CDB)	COPd		6.37	
			Pdh	kW	4.3	
		B/6°CWB	PERd	%	254.8	
			Cdh (Degradation heating)		1.0	
		D Condition (12°CDB)	COPd		8.13	
			Pdh	kW	6.6	
		B/11°CWB	PERd	%	325.2	
			Tol		2.90	2.86
		Tol (temperature operating limit)	Pdh	kW	6.9	8.1
			PERd	%	116.0	114.4
		Tbiv (bivalent temperature)	TOL	°C	-10	
			WTOL	°C	35	
		Tbiv (bivalent temperature)	COPd		3.20	2.86
			Pdh	kW	7.5	8.1
		Tbiv (bivalent temperature)	PERd	%	128.0	114.4
			Tbiv	°C	-7	-10

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Technical specifications				ELBX12E9W + ERRA08EW17	ELBX12E9W + ERRA10EW17	ELBX12E9W + ERRA12EW17
Space heating	Average climate water outlet 35°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4	0.0
		General	Annual energy consumption	kWh	5,334	5,180
Cold climate water outlet 35°C			ηs (Seasonal space heating efficiency)	%	163	168
			Prated at -22°C	kW	9	5,165
			Qhe Annual energy consumption (GCV)	Gj	19.2	18.6
			A Condition COPd		3.48	
			Pdh	kW	5.4	
			PERd	%	139.2	
			B Condition Cdh (Degradation heating)		1.0	
			COPd		5.40	
			Pdh	kW	3.6	
			PERd	%	216.0	
			C Condition Cdh (Degradation heating)		1.0	
			COPd		6.53	
			Pdh	kW	5.3	
			PERd	%	261.2	
			D Condition Cdh (Degradation heating)		1.0	
			COPd		7.98	
			Pdh	kW	6.6	
			PERd	%	319.0	319.2
			Tol COPd		2.11	2.14
			Pdh	kW	4.9	5.9
			PERd	%	84.3	85.6
			TOL	°C	-22	2.16
			WTOL	°C	35	6.5
			G Condition COPd		2.68	2.64
			Pdh	kW	6.0	7.0
			PERd	%	107.1	105.6
			Tbiv COPd		2.95	2.64
			Pdh	kW	6.5	7.0
			PERd	%	118.1	105.6
			Tbiv	°C	-12	-15
			Rated heat output supplementary capacity		4.1	3.1
			Psup (at Tdesign -22°C)	kW		2.6
			General	Annual energy consumption	kWh	1,873
			ηs (Seasonal space heating efficiency)	%	242	
			Prated at 2°C	kW	8.6	
			Qhe Annual energy consumption (GCV)	Gj	7	
			B Condition Cdh (Degradation heating)		1.0	
			COPd		4.17	
			Pdh	kW	6.8	
			PERd	%	166.8	
			C Condition Cdh (Degradation heating)		1.0	
			COPd		5.85	
			Pdh	kW	5.5	
			PERd	%	234.0	
			Tbiv COPd		4.89	
			Pdh	kW	6.8	
			PERd	%	195.6	
			Tbiv	°C	5	
			D Condition Cdh (Degradation heating)		1.0	
			COPd		7.78	
			Pdh	kW	6.1	
			PERd	%	311.2	

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(3)Cooling: EW 12°C; MW 7°C; ambient conditions: 35°CDB |

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(4)Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(7)DB/WB 7°C/6°C - IWC 35°C (dT=5°C) with pump at full speed

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Technical specifications				ELSH12P30E + ERRA08EW17		ELSH12P50E + ERRA08EW17		ELSH12P30E + ERRA10EW17		ELSH12P50E + ERRA10EW17		ELSH12P30E + ERRA12EW17		ELSH12P50E + ERRA12EW17			
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F													
Indoor unit				ELSH12P30EG		ELSH12P50EG		ELSH12P30EG		ELSH12P50EG		ELSH12P30EG		ELSH12P50EG			
Outdoor unit				ERRA08EAW17				ERRA10EAW17				ERRA12EAW17					
Heating capacity	Min.	kW		3.45 (1)													
	Nom.	kW		6.17 (2)													
	Max.	kW		7.95 (1)				9.25 (1)				9.97 (1)					
Power input	Heating Min.	kW		0.70 (5)													
	Nom.	kW		1.21 (2)													
	Max.	kW		1.63 (5)				1.98 (5)				2.21 (5)					
	Domes- tic hot water from 10°C to 50°C	Nom.	kWh	3.44 (6)		4.65 (6)		3.44 (6)		4.65 (6)		3.44 (6)		4.65 (6)			
	Heat up time from 10°C to 50°C	hr		2h29min		3h45min		2h29min		3h45min		2h29min		3h45min			
COP				5.10 (2)													
Pump	Type	Grundfos UPM4L K 20-75 CHBL 3 RT															
	Nomi- nal ESP unit	Heating	kPa	55.4 (7)													
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3													
General	Supplier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium													
		Name or trademark		Daikin Europe N.V.													
	Product de- scrip- tion	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		No													
		Water-to-water heat pump		No													
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA	44.7													
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA	56.0													
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)		m³/h		3,542											
		Other	Capacity control		Inverter												
		Pck (Crankcase heater mode)		kW		0.000											
		Poff (Off mode)		kW		0.027											
		Psb (Standby mode)		kW		0.027											
		Pto (Thermostat off)		kW		0.024											
		Domestic hot water heating	General	Declared load profile		L		XL		L		XL		L		XL	
Average	AEC (Annual electricity consumption)		kWh		858		1,235		858		1,235		858		1,235		
climate	COPdhw				2.83		3.29		2.83		3.29		2.83		3.29		

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Technical specifications			ELSH12P30E + ERRA08EW17	ELSH12P50E + ERRA08EW17	ELSH12P30E + ERRA10EW17	ELSH12P50E + ERRA10EW17	ELSH12P30E + ERRA12EW17	ELSH12P50E + ERRA12EW17	
Domestic hot water heating 	Average climate	Heat up time	2h 29min	3h 28min	2h 29min	3h 28min	2h 29min	3h 28min	
		η _{wh} (water heating efficiency) %	119	136	119	136	119	136	
		Q _{elec} (Daily electricity consumption) kWh	4.120	5.800	4.120	5.800	4.120	5.800	
		Reference hot water temperature °C	47.2	44.7	47.2	44.7	47.2	44.7	
		Stand-by power input W	37.4	32.5	37.4	32.5	37.4	32.5	
		Water heating energy efficiency class		A+					
		Cold climate	AEC (Annual electricity consumption) kWh	1,152	1,457	1,152	1,457	1,152	1,457
	COP _{dhw}		2.12	2.80	2.12	2.80	2.12	2.80	
	Heat up time		2h 23min	3h 37 min	2h 23min	3h 37 min	2h 23min	3h 37 min	
	η _{wh} (water heating efficiency) %		89	115	89	115	89	115	
	Q _{elec} (Daily electricity consumption) kWh		5.500	6.820	5.500	6.820	5.500	6.820	
	Warm climate	Reference hot water temperature °C	46.3	44.7	46.3	44.7	46.3	44.7	
		Stand-by power input W	45.5	34.3	45.5	34.3	45.5	34.3	
		AEC (Annual electricity consumption) kWh	759	1,021	759	1,021	759	1,021	
		COP _{dhw}	3.19	3.96	3.19	3.96	3.19	3.96	
		Heat up time	2h 18min	3h 17min	2h 18min	3h 17min	2h 18min	3h 17min	
		η _{wh} (water heating efficiency) %	135	164	135	164	135	164	
		Q _{elec} (Daily electricity consumption) kWh	3.650	4.820	3.650	4.820	3.650	4.820	
		Reference hot water temperature °C	47.2	44.7	47.2	44.7	47.2	44.7	
Stand-by power input W		35.2	30.7	35.2	30.7	35.2	30.7		
Space heating 	Average climate	General Annual energy consumption kWh	7,541		7,522		7,309		
		η _s (Seasonal space heating efficiency) %	134				138		
	water outlet 55°C	Prated at -10°C kW	12.5						
		Q _{he} Annual energy consumption (GCV) GJ	27				26		
		SCOP	3.42		3.43		3.53		
		Seasonal space heating eff. class		A++					
		A Condition (-7°CDB)	C _{dh} (Degradation heating)	1.0					
			COP _d	2.34					
		B (-8°CWB)	P _d kW	7.6					
			PER _d %	93.6					
		B Condition (2°CDB)	C _{dh} (Degradation heating)	1.0					
			COP _d	3.50					
		B (1°CWB)	P _d kW	6.8					
			PER _d %	140.0					
	C Condition (7°CDB)	C _{dh} (Degradation heating)	1.0						
		COP _d	5.07						
		P _d kW	4.5						

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Technical specifications					ELSH12P30E + ERRA08EW17	ELSH12P50E + ERRA08EW17	ELSH12P30E + ERRA10EW17	ELSH12P50E + ERRA10EW17	ELSH12P30E + ERRA12EW17	ELSH12P50E + ERRA12EW17
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C	-22					
			WTOL	°C	55					
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	%	2,972					
					170					
					9.6					
					11					
					1.0					
					2.66					
					8.0					
					106.5					
					1.0					
					3.79					
					6.7					
					151.5					
					1.0					
					5.87					
					3.6					
					234.9					
					3.13					
					8.4					
					125.4					
					4					
Average climate water outlet 35°C	General	Annual energy consumption	kWh	%	3,561					
					190					
					8.3					
					13					
					4.81					
					4.84					
					A+++					
A Condition (-7°CDB)	COPd	Seasonal space heating eff. class	kWh	%	3.20					
					3.20					

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Technical specifications				ELSH12P30E + ERRA08EW17	ELSH12P50E + ERRA08EW17	ELSH12P30E + ERRA10EW17	ELSH12P50E + ERRA10EW17	ELSH12P30E + ERRA12EW17	ELSH12P50E + ERRA12EW17	
 Space heating	Average climate water outlet 35°C	A Condition (-7°C- B/-8°CWB)	Pdh kW	7.5						
			PERd %	128.0						
		B Condition (2°C- B/1°CWB)	Cdh (Degradation heating)		1.0					
				COPd	4.93					
			Pdh kW	4.4						
				PERd %	197.2					
		C Condition (7°C- B/6°CWB)	Cdh (Degradation heating)		1.0					
				COPd	6.37					
			Pdh kW	4.3						
				PERd %	254.8					
		D Condition (12°C- B/11°CWB)	Cdh (Degradation heating)		1.0					
				COPd	8.13					
			Pdh kW	6.6						
				PERd %	325.2					
	Tol (temperature operating limit)		COPd	2.90		2.86				
			Pdh kW	6.9		8.1				
			PERd %	116.0		114.4				
			TOL °C	-10						
			WTOL °C	35						
		Tbiv (bivalent temperature)	COPd	3.20		2.86				
			Pdh kW	7.5		8.1				
			PERd %	128.0		114.4				
			Tbiv °C	-7		-10				
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4		0.0			
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394		5,239		5,224		
		ηs (Seasonal space heating efficiency)	%	162		166		167		
		Prated at -22°C	kW	9						
		Qhe Annual energy consumption (GCV)	Gj	19.4		18.9		18.8		
	A Condition (-7°C- B/-8°CWB)	COPd	3.48							
		Pdh kW	5.4							
		PERd %	139.2							
		Cdh (Degradation heating)		1.0						
	B Condition (2°C- B/1°CWB)	COPd	5.40							
		Pdh kW	3.6							
		PERd %	216.0							
		Cdh (Degradation heating)		1.0						
		C Condition (7°C- B/11°CWB)	COPd	6.53						

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Technical specifications				ELSH12P30E + ERRA08EW17	ELSH12P50E + ERRA08EW17	ELSH12P30E + ERRA10EW17	ELSH12P50E + ERRA10EW17	ELSH12P30E + ERRA12EW17	ELSH12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°C DB/ B/6°C WB)	Pdh	kW	5.3				
			PERd	%	261.2				
		D Condition (12°C DB/ B/11°C WB)	CdH (Degradation heating)		1.0				
			COPd		7.98				
			Pdh	kW	6.6				
			PERd	%	319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11	2.14		2.16	
			Pdh	kW	4.9	5.9		6.5	
			PERd	%	84.3	85.6		86.4	
			TOL	°C	-22				
			WTOL	°C	35				
		G Condition (-15°C DB/-)	COPd		2.68		2.64		
			Pdh	kW	6.0		7.0		
			PERd	%	107.1		105.6		
	Warm climate water outlet 35°C	Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh	kW	6.5		7.0		
			PERd	%	118.1		105.6		
			Tbiv	°C	-12		-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	4.1	3.1		2.6	
	General	Annual energy consumption	ηs (Seasonal space heating efficiency)	kWh	1,993				
					228				
					8.6				
		Prated at 2°C	Qhe Annual energy consumption (GCV)	Gj	7				
					1.0				
					4.17				
		B Condition (2°C DB/ B/7°C WB)	Pdh	kW	6.8				
			PERd	%	166.8				
		C Condition (7°C DB/ B/6°C WB)	Cdh (Degradation heating)		1.0				
			COPd		5.85				
			Pdh	kW	5.5				
			PERd	%	234.0				
		Tbiv (biva- lent tem- pera- ture)	COPd		4.89				
			Pdh	kW	6.8				
			PERd	%	195.6				
			Tbiv	°C	5				
		D Condition (12°C DB/ B/11°C WB)	Cdh (Degradation heating)		1.0				
			COPd		7.78				
Space heating 	Warm climate water outlet 35°C	D Condition (12°C DB/ B/11°C WB)	Pdh	kW	6.1				
			PERd	%	311.2				

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (dT = 5°C) |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications			ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17
Energy Efficiency Range			Space Heating A+++ ~ D, Water Heating A+ ~ F					
Indoor unit			ELSHB12P30EG	ELSHB12P50EG	ELSHB12P30EG	ELSHB12P50EG	ELSHB12P30EG	ELSHB12P50EG
Outdoor unit			ERRA08EAW17		ERRA10EAW17		ERRA12EAW17	
Heating capacity	Min.	kW	3.45 (1)					
	Nom.	kW	6.17 (2)					
	Max.	kW	7.95 (1)		9.25 (1)		9.97 (1)	

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Technical specifications			ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17		
Power input	Heating	Min.	0.70 (5)							
		Nom.	1.21 (2)							
		Max.	1.63 (5)		1.98 (5)		2.21 (5)			
	Domes- tic hot water from 10°C to 50°C	Nom.	3.44 (6)	4.65 (6)	3.44 (6)	4.65 (6)	3.44 (6)	4.65 (6)		
Heat up time from 10°C to 50°C		hr	2h29min	3h45min	2h29min	3h45min	2h29min	3h45min		
COP			5.10 (2)							
Pump	Type		Grundfos UPM4L K 20-75 CHBL 3 RT							
	Nomi- nal ESP unit	Heating	kPa	55.4 (7)						
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min						
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
		Product de- scrip- tion	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		No							
		Water-to-water heat pump		No						
		LW(A) Sound power level (according to EN14825)	dB(A)	dBA						
	LW(A) Sound power level (according to EN14825)		dB(A)	56.0						
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)		m³/h						
		Other		Capacity control						
		Pck (Crankcase heater mode)		kW						
		Poff (Off mode)		kW						
		Psb (Standby mode)		kW						
		Pto (Thermostat off)		kW						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
	Average climate	AEC (Annual electricity consumption)		kWh	858	1,235	858	1,235	858	1,235
		COPdhw			2.83	3.29	2.83	3.29	2.83	3.29
Domestic hot water heating	Aver- age climate	Heat up time		2h 29min	3h 28min	2h 29min	3h 28min	2h 29min	3h 28min	
		ηwh (water heating efficiency)		%	119	136	119	136	119	136
		Qelec (Daily electricity consumption)		kWh	4.120	5.800	4.120	5.800	4.120	5.800
		Reference hot water temperature		°C	47.2	44.7	47.2	44.7	47.2	44.7
		Stand-by power input		W	37.4	32.5	37.4	32.5	37.4	32.5
		Water heating energy efficiency class			A+					
	Cold climate	AEC (Annual electricity consumption)		kWh	1,152	1,457	1,152	1,457	1,152	1,457
		COPdhw			2.12	2.80	2.12	2.80	2.12	2.80
		Heat up time		2h 23min	3h 37 min	2h 23min	3h 37 min	2h 23min	3h 37 min	
		ηwh (water heating efficiency)		%	89	115	89	115	89	115
		Qelec (Daily electricity consumption)		kWh	5.500	6.820	5.500	6.820	5.500	6.820
		Reference hot water temperature		°C	46.3	44.7	46.3	44.7	46.3	44.7
	Warm climate	Stand-by power input		W	45.5	34.3	45.5	34.3	45.5	34.3
		AEC (Annual electricity consumption)		kWh	759	1,021	759	1,021	759	1,021
		COPdhw			3.19	3.96	3.19	3.96	3.19	3.96
		Heat up time		2h 18min	3h 17min	2h 18min	3h 17min	2h 18min	3h 17min	
		ηwh (water heating efficiency)		%	135	164	135	164	135	164
		Qelec (Daily electricity consumption)		kWh	3.650	4.820	3.650	4.820	3.650	4.820
		Reference hot water temperature		°C	47.2	44.7	47.2	44.7	47.2	44.7
		Stand-by power input		W	35.2	30.7	35.2	30.7	35.2	30.7

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Technical specifications				ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,541		7,522		7,309
			ηs (Seasonal space heating efficiency)	%		134			138
			Prated at -10°C	kW			12.5		
			Qhe Annual energy consumption (GCV)	Gj		27			26
			SCOP		3.42		3.43		3.53
			Seasonal space heating eff. class				A++		
			A Condition (-7°CDB/-8°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				2.34		
			Pdh	kW			7.6		
			PERd	%			93.6		
			B Condition (2°CDB/7°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				3.50		
			Pdh	kW			6.8		
			PERd	%			140.0		
			C Condition (7°CDB/16°CWB)						
			Cdh (Degradation heating)				1.0		
Space heating 	Average climate water outlet 55°C	General	COPd				5.07		
			Pdh	kW			4.5		
			PERd	%			202.8		
			D Condition (12°CDB/11°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				6.23		
			Pdh	kW			5.2		
			PERd	%			249.2		
			Tol (temperature operating limit)						
			COPd		2.04		2.06		
			Pdh	kW	6.9		8.2		
			PERd	%	81.6		82.4		
			TOL	°C			-10		
			WTOL	°C			55		
			Rated heat output supplementary capacity	kW	5.6		4.3		
			Tbiv (bivalent temperature)						
			COPd			2.90		2.48	
			Pdh	kW		8.5		10.0	
			PERd	%		116.0		99.2	
			Tbiv	°C		-2		-5	
			Cold climate water outlet 55°C						
			General						
			Annual energy consumption	kWh	7,088		6,950		6,921
			ηs (Seasonal space heating efficiency)	%	122		125		
			Prated at -22°C	kW			9.0		
			Qhe Annual energy consumption (GCV)	Gj	26		25		
			A Condition (-7°CDB/-8°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				2.61		
			Pdh	kW			5.2		
			PERd	%	104.2		104.4		
			B Condition (2°CDB/7°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				3.90		
			Pdh	kW			3.3		
			PERd	%			156.0		
			C Condition (7°CDB/16°CWB)						
			Cdh (Degradation heating)				1.0		
			COPd				4.96		
			Pdh	kW			3.4		
			PERd	%			198.3		
			D Condition (12°CDB/11°CWB)						
			COPd				6.56		
			Pdh	kW			4.2		
			PERd	%			262.5		
			Tol (temperature operating limit)						
			COPd		1.49		1.56		1.62
			Pdh	kW	4.9		6.1		7.2
			PERd	%	59.6		62.3		64.7

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Technical specifications				ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17	
Space heating 	Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL °C	-22						
			WTOL °C	55						
		G Condition (-15°CDB/-)	COPd	2.00		2.03				
			Pdh kW	6.0		7.2				
			PERd %	80.0		81.2				
		Tbiv (bivalent temperature)	COPd	2.25		2.03				
			Pdh kW	6.6		7.2				
			PERd %	90.0		81.2				
		Tbiv °C	-12		-15					
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	4.1		2.9		1.8	
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	2,972						
		ηs (Seasonal space heating efficiency)	%	170						
		Prated at 2°C	kW	9.6						
		Qhe Annual energy consumption (GCV)	Gj	11						
		B Condition (2°CDB/-)	Cdh (Degradation heating)		1.0					
			COPd	2.66						
			Pdh kW	8.0						
			PERd %	106.5						
		C Condition (7°CDB/-)	Cdh (Degradation heating)		1.0					
			COPd	3.79						
			Pdh kW	6.7						
			PERd %	151.5						
		D Condition (12°CDB/-)	Cdh (Degradation heating)		1.0					
			COPd	5.87						
			Pdh kW	3.6						
			PERd %	234.9						
		Tbiv (bivalent temperature)	COPd	3.13						
			Pdh kW	8.4						
			PERd %	125.4						
		Tbiv °C	4							
Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,561		3,539				
		ηs (Seasonal space heating efficiency)	%	190		191				
		Prated at -10°C	kW	8.3						
		Qhe Annual energy consumption (GCV)	Gj	13						
		SCOP	4.81		4.84					
		Seasonal space heating eff. class		A+++						
		A Condition (-7°CDB/-)	COPd		3.20					
		B/-8°CWB)								

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Technical specifications					ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW	7.5						
			PERd	%	128.0						
		B Condition (2°CDB/-8/7°CWB)	CdH (Degradation heating)				1.0				
			COPd				4.93				
			Pdh	kW	4.4						
			PERd	%	197.2						
		C Condition (7°CDB/-8/6°CWB)	CdH (Degradation heating)				1.0				
			COPd				6.37				
			Pdh	kW	4.3						
			PERd	%	254.8						
		D Condition (12°CDB/-8/11°CWB)	CdH (Degradation heating)				1.0				
			COPd				8.13				
			Pdh	kW	6.6						
			PERd	%	325.2						
		Tol (temperature operating limit)	COPd		2.90			2.86			
			Pdh	kW	6.9			8.1			
			PERd	%	116.0			114.4			
			TOL	°C	-10						
		WTOL	°C	35							
		Tbiv (bivalent temperature)	COPd		3.20			2.86			
Pdh	kW		7.5			8.1					
	PERd	%	128.0			114.4					
	Tbiv	°C	-7			-10					
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4			0.0					
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394			5,239		5,224		
		ns (Seasonal space heating efficiency)	%	162			166		167		
		Prated at -22°C	kW				9				
		Qhe Annual energy consumption (GCV)	Gj	19.4			18.9		18.8		
		A Condition (-7°CDB/-8/8°CWB)	COPd				3.48				
			Pdh	kW	5.4						
		PERd	%	139.2							
			CdH (Degradation heating)				1.0				
		B Condition (2°CDB/-8/7°CWB)	COPd				5.40				
			Pdh	kW	3.6						
		PERd	%	216.0							
			CdH (Degradation heating)				1.0				
		C Condition (7°CDB/-8/6°CWB)	COPd				6.53				

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Technical specifications				ELSHB12P30E + ERRA08EW17	ELSHB12P50E + ERRA08EW17	ELSHB12P30E + ERRA10EW17	ELSHB12P50E + ERRA10EW17	ELSHB12P30E + ERRA12EW17	ELSHB12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB) B(6°CWB)	Pdh	kW	5.3				
			PERd	%	261.2				
		D Condition (12°CDB) B(11°CWB)	CdH (Degradation heating)		1.0				
			COPd		7.98				
			Pdh	kW	6.6				
			PERd	%	319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11	2.14		2.16	
			Pdh	kW	4.9	5.9		6.5	
			PERd	%	84.3	85.6		86.4	
			TOL	°C	-22				
			WTOL	°C	35				
	Warm climate water outlet 35°C	G Condition (-15°CDB/-)	COPd		2.68		2.64		
			Pdh	kW	6.0		7.0		
			PERd	%	107.1		105.6		
		Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh	kW	6.5		7.0		
			PERd	%	118.1		105.6		
			Tbiv	°C	-12		-15		
			Rated heat output supplementary capacity	kW	4.1	3.1		2.6	
		General	Annual energy consumption	kWh	1,993				
			ηs (Seasonal space heating efficiency)	%	228				
			Prated at 2°C	kW	8.6				
		B Condition (2°CDB) B(1°CWB)	Qhe Annual energy consumption (GCV)	Gj	7				
			CdH (Degradation heating)		1.0				
			COPd		4.17				
		C Condition (7°CDB) B(6°CWB)	Pdh	kW	6.8				
			PERd	%	166.8				
			CdH (Degradation heating)		1.0				
			COPd		5.85				
			Pdh	kW	5.5				
		Tbiv (biva- lent tem- pera- ture)	PERd	%	234.0				
			COPd		4.89				
			Pdh	kW	6.8				
			PERd	%	195.6				
			Tbiv	°C	5				
		D Condition (12°CDB)	CdH (Degradation heating)		1.0				
			COPd		7.78				
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB) B(11°CWB)	Pdh	kW	6.1				
			PERd	%	311.2				

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |

(2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |

(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |

(7)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications			ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17
Energy Efficiency Range			Space Heating A+++ ~ D, Water Heating A+ ~ F					
Indoor unit			ELSX12P30EG	ELSX12P50EG	ELSX12P30EG	ELSX12P50EG	ELSX12P30EG	ELSX12P50EG
Outdoor unit			ERRA08EAW17		ERRA10EAW17		ERRA12EAW17	
Heating capacity	Min.	kW	3.45 (1)					
	Nom.	kW	6.17 (2)					
	Max.	kW	7.95 (1)		9.25 (1)		9.97 (1)	
Cooling capacity	Nom.	kW	6.81 (3) / 6.47 (4)		7.97 (3) / 6.47 (4)		8.62 (3) / 6.47 (4)	

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Technical specifications			ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17			
Power input	Heating	Min.	0.70 (5)								
		Nom.	1.21 (2)								
		Max.	1.63 (5)		1.98 (5)		2.21 (5)				
	Cooling	Nom.	2.08 (3) / 1.13 (4)		2.57 (3) / 1.13 (4)		2.86 (3) / 1.13 (4)				
	Domes- tic hot water from 10°C to 50°C	Nom.	3.44 (6)		4.65 (6)		3.44 (6)		4.65 (6)		
Heat up time from 10°C to 50°C		hr	2h29min	3h45min	2h29min	3h45min	2h29min	3h45min			
COP			5.10 (2)								
EER			3.28 (3) / 5.75 (4)		5.75 (4)		3.01 (3) / 5.75 (4)				
Pump	Type		Grundfos UPM4L K 20-75 CHBL 3 RT								
	Nomi- nal ESP unit	Heating	55.4 (7)								
Water side Heat exchanger	Water flow rate	Heating	18.3								
		Nom.									
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium							
		Name or trademark		Daikin Europe N.V.							
	Product de- scrip- tion	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		No							
		Water-to-water heat pump		No							
	LW(A) Sound power level (according to EN14825)	dB(A)	44.7								
	LW(A) Sound power level (according to EN14825)		dB(A)	56.0							
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)		3,542							
	Other	Capacity control		Inverter							
		Pck (Crankcase heater mode)		0.000							
		Poff (Off mode)		0.027							
		Psb (Standby mode)		0.027							
		Pto (Thermostat off)		0.024							
Domestic hot water heating	General	Declared load profile		L		XL		L		XL	
		Aver- age climate	AEC (Annual electricity consumption)	858		1,235		858		1,235	
			COPdhw	2.83		3.29		2.83		3.29	
		Heat up time		2h 29min		3h 28min		2h 29min		3h 28min	
		ηwh (water heating efficiency)		119		136		119		136	
		Qelec (Daily electricity consumption)		4.120		5.800		4.120		5.800	
		Reference hot water temperature		47.2		44.7		47.2		44.7	
		Stand-by power input		37.4		32.5		37.4		32.5	
		Water heating energy efficiency class		A+							
		Cold climate	AEC (Annual electricity consumption)	1,152		1,457		1,152		1,457	
	COPdhw		2.12		2.80		2.12		2.80		
	Heat up time		2h 23min		3h 37 min		2h 23min		3h 37 min		
	ηwh (water heating efficiency)		89		115		89		115		
	Qelec (Daily electricity consumption)		5.500		6.820		5.500		6.820		
	Reference hot water temperature		46.3		44.7		46.3		44.7		
	Stand-by power input		45.5		34.3		45.5		34.3		
	Warm climate		AEC (Annual electricity consumption)	759		1,021		759		1,021	
		COPdhw		3.19		3.96		3.19		3.96	
		Heat up time		2h 18min		3h 17min		2h 18min		3h 17min	
		ηwh (water heating efficiency)		135		164		135		164	
		Qelec (Daily electricity consumption)		3.650		4.820		3.650		4.820	
		Reference hot water temperature		47.2		44.7		47.2		44.7	
		Stand-by power input		35.2		30.7		35.2		30.7	

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Technical specifications					ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17	
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,210						
			ηs (Seasonal space heating efficiency)	%	140						
			Prated at -10°C	kW	12.5						
			SCOP		3.58						
			Seasonal space heating eff. class		A++						
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0						
			COPd		2.34						
			Pdh	kW	7.6						
		B Condition (2°CDB/-1°CWB)	PERd	%	93.6						
			Cdh (Degradation heating)		1.0						
			COPd		3.50						
		C Condition (7°CDB/-6°CWB)	Pdh	kW	6.8						
			PERd	%	140.0						
			Cdh (Degradation heating)		1.0						
 Space heating	Average climate water outlet 55°C	C Condition (7°CDB/-6°CWB)	COPd		5.07						
			Pdh	kW	4.5						
			PERd	%	202.8						
			D Condition (12°CDB/-1°CWB)	Cdh (Degradation heating)		1.0					
				COPd		6.23					
		Pdh		kW	5.2						
		Tol (temperature operating limit)	PERd	%	249.2						
			COPd		2.06						
			Pdh	kW	8.2						
		TOL	PERd	%	82.4						
			WTOL	°C	-10						
			WTOL	°C	55						
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.3						
			Tbiv (bivalent temperature limit)	COPd		2.06					
				Pdh	kW	8.2					
				PERd	%	82.4					
				Tbiv	°C	-5					
		Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		6,890		6,861	
				ηs (Seasonal space heating efficiency)	%	123		126			
				Prated at -22°C	kW	9.0					
				Qhe Annual energy consumption (GCV)	Gj	25					
				A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0				
			COPd			2.61					
			Pdh		kW	5.2					
			PERd		%	104.2		104.4			
			B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0					
				COPd		3.90					
				Pdh	kW	3.3					
				PERd	%	156.0					
			C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1.0					
				COPd		4.96					
				Pdh	kW	3.4					
				PERd	%	198.3					
			D Condition (12°CDB/-1°CWB)	COPd		6.56					
				Pdh	kW	4.2					
				PERd	%	262.5					
				Tol (temperature operating limit)	COPd	1.49		1.56		1.62	

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Technical specifications					ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 55°C	Tol (temperature operating limit)	Pdh	kW	4.9		6.1		7.2	
			PERd	%	59.6		62.3		64.7	
			TOL	°C			-22			
			WTOL	°C			55			
		G Condition (-15°CDB/-)	COPd		2.00		2.03			
			Pdh	kW	6.0		7.2			
			PERd	%	80.0		81.2			
			Tbiv	°C	2.25		2.03			
		(bivalent temperature)	Pdh	kW	6.6		7.2			
			PERd	%	90.0		81.2			
			Tbiv	°C	-12		-15			
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	4.1		2.9		1.8	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh			2,853			
			ηs (Seasonal space heating efficiency)	%			177			
			Prated at 2°C	kW			9.6			
			Qhe Annual energy consumption (GCV)	Gj			10			
		B Condition (2°CDB/-)	Cdh (Degradation heating)				1.0			
			COPd				2.66			
			Pdh	kW			8.0			
			PERd	%			106.5			
		C Condition (7°CDB/-)	Cdh (Degradation heating)				1.0			
			COPd				3.79			
			Pdh	kW			6.7			
			PERd	%			151.5			
		D Condition (12°CDB/-)	Cdh (Degradation heating)				1.0			
			COPd				5.87			
			Pdh	kW			3.6			
			PERd	%			234.9			
		Tbiv (bivalent temperature)	COPd				3.13			
			Pdh	kW			8.4			
			PERd	%			125.4			
			Tbiv	°C			4			
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	3,462		3,440			
			ηs (Seasonal space heating efficiency)	%	195		196			
			Prated at -10°C	kW			8.3			
			Qhe Annual energy consumption (GCV)	Gj			12			
		SCOP			4.95		4.98			

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Technical specifications				ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17	
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++						
		A Condition	COPd	3.20						
		(-7°C)-	Pdh kW	7.5						
		B/-8°CWB	PERd %	128.0						
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	4.93						
		B/1°CWB	Pdh kW	4.4						
			PERd %	197.2						
		C Condition	Cdh (Degradation heating)	1.0						
		(7°C)-	COPd	6.37						
		B/6°CWB	Pdh kW	4.3						
			PERd %	254.8						
		D Condition	Cdh (Degradation heating)	1.0						
		(12°C)-	COPd	8.13						
		B/11°CWB	Pdh kW	6.6						
			PERd %	325.2						
		Tol	COPd	2.90		2.86				
		(tem-	Pdh kW	6.9		8.1				
		per-	PERd %	116.0		114.4				
		ature	TOL °C	-10						
		oper-	WTOL °C	35						
		ating								
		limit)								
		Tbiv	COPd	3.20		2.86				
		(biva-	Pdh kW	7.5		8.1				
		lent	PERd %	128.0		114.4				
		tem-	Tbiv °C	-7		-10				
		pera-								
		ture)								
		Rated heat	Psup (at Tdesign -10°C)	kW	1.4		0.0			
		output sup-								
		plementary								
		capacity								
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,334		5,180		5,165		
		ηs (Seasonal space heating efficiency)	%	163		168		169		
		Prated at -22°C	kW	9						
		Qhe Annual energy consumption (GCV)	Gj	19.2		18.6				
		A Condition	COPd	3.48						
		(-7°C)-	Pdh kW	5.4						
		B/-8°CWB	PERd %	139.2						
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	5.40						
		B/1°CWB	Pdh kW	3.6						
			PERd %	216.0						

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Technical specifications				ELSX12P30E + ERRA08EW17	ELSX12P50E + ERRA08EW17	ELSX12P30E + ERRA10EW17	ELSX12P50E + ERRA10EW17	ELSX12P30E + ERRA12EW17	ELSX12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°C DB/ B/16°C WB)	Cdh (Degradation heating)				1.0		
			COPd				6.53		
			Pdh kW				5.3		
			PERd %				261.2		
		D Condition (12°C DB/ B/11°C WB)	Cdh (Degradation heating)				1.0		
			COPd				7.98		
			Pdh kW				6.6		
			PERd %		319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11		2.14		2.16
			Pdh kW		4.9		5.9		6.5
			PERd %		84.3		85.6		86.4
			TOL °C				-22		
			WTOL °C				35		
	Warm climate water outlet 35°C	G Condition (-15°C DB/A)	COPd		2.68		2.64		
			Pdh kW		6.0		7.0		
			PERd %		107.1		105.6		
		Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh kW		6.5		7.0		
			PERd %		118.1		105.6		
			Tbiv °C		-12		-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C) kW		4.1		3.1		2.6
	Space heating 	General	Annual energy consumption kWh				1,873		
			ηs (Seasonal space heating efficiency) %				242		
			Prated at 2°C kW				8.6		
			Qhe Annual energy consumption (GCV) GJ				7		
		B Condition (2°C DB/ B/7°C WB)	Cdh (Degradation heating)				1.0		
			COPd				4.17		
			Pdh kW				6.8		
			PERd %				166.8		
		C Condition (7°C DB/ B/16°C WB)	Cdh (Degradation heating)				1.0		
			COPd				5.85		
			Pdh kW				5.5		
			PERd %				234.0		
		Tbiv (biva- lent tem- pera- ture)	COPd				4.89		
			Pdh kW				6.8		
			PERd %				195.6		
			Tbiv °C				5		

- (1) Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (dT = 5°C) |
(3) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
(4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
(5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6) Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7) DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications			ELSXB12P30E + ERRA08EW17	ELSXB12P50E + ERRA08EW17	ELSXB12P30E + ERRA10EW17	ELSXB12P50E + ERRA10EW17	ELSXB12P30E + ERRA12EW17	ELSXB12P50E + ERRA12EW17
Energy Efficiency Range			Space Heating A+++ ~ D, Water Heating A+ ~ F					
Indoor unit			ELSXB12P30EG	ELSXB12P50EG	ELSXB12P30EG	ELSXB12P50EG	ELSXB12P30EG	ELSXB12P50EG
Outdoor unit			ERRA08EAW17		ERRA10EAW17		ERRA12EAW17	
Heating capacity	Min.	kW	3.45 (1)					
	Nom.	kW	6.17 (2)					
	Max.	kW	7.95 (1)		9.25 (1)		9.97 (1)	
Cooling capacity	Nom.	kW	6.81 (3) / 6.47 (4)		7.97 (3) / 6.47 (4)		8.62 (3) / 6.47 (4)	

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Technical specifications			ELSB12P30E + ERRA08EW17	ELSB12P50E + ERRA08EW17	ELSB12P30E + ERRA10EW17	ELSB12P50E + ERRA10EW17	ELSB12P30E + ERRA12EW17	ELSB12P50E + ERRA12EW17									
Power input	Heating	Min.	0.70 (5)														
		Nom.	1.21 (2)														
		Max.	1.63 (5)		1.98 (5)		2.21 (5)										
	Cooling	Nom.	2.08 (3) / 1.13 (4)		2.57 (3) / 1.13 (4)		2.86 (3) / 1.13 (4)										
	Domes- tic hot water from 10°C to 50°C	Nom.	3.44 (6)		4.65 (6)		3.44 (6)		4.65 (6)								
Heat up time from 10°C to 50°C		hr	2h29min		3h45min		2h29min		3h45min								
COP			5.10 (2)														
EER			3.28 (3) / 5.75 (4)		5.75 (4)		3.01 (3) / 5.75 (4)										
Pump	Type		Grundfos UPM4L K 20-75 CHBL 3 RT														
	Nomi- nal ESP unit	Heating	kPa		55.4 (7)												
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min		18.3												
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium													
		Name or trademark		Daikin Europe N.V.													
	Product de- scrip- tion	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		No													
	Water-to-water heat pump		No														
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA		44.7												
	LW(A) Sound power level (according to EN14825)		dB(A)	dBA		56.0											
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)		m³/h		3,542											
		Other	Capacity control		Inverter												
	Pck (Crankcase heater mode)		0.000														
	Poff (Off mode)		0.027														
	Psb (Standby mode)		0.027														
	Pto (Thermostat off)		0.024														
 Domestic hot water heating	General	Declared load profile		L		XL		L		XL		L		XL			
		Aver- age climate	AEC (Annual electricity consumption)		kWh		858		1,235		858		1,235		858		1,235
	COPdhw				2.83		3.29		2.83		3.29		2.83		3.29		
	Heat up time				2h 29min		3h 28min		2h 29min		3h 28min		2h 29min		3h 28min		
	ηwh (water heating efficiency)		%		119		136		119		136		119		136		
	Qelec (Daily electricity consumption)		kWh		4.120		5.800		4.120		5.800		4.120		5.800		
	Reference hot water temperature		°C		47.2		44.7		47.2		44.7		47.2		44.7		
	Stand-by power input		W		37.4		32.5		37.4		32.5		37.4		32.5		
	Water heating energy efficiency class				A+												
	Cold climate	AEC (Annual electricity consumption)		kWh		1,152		1,457		1,152		1,457		1,152		1,457	
		COPdhw				2.12		2.80		2.12		2.80		2.12		2.80	
		Heat up time				2h 23min		3h 37 min		2h 23min		3h 37 min		2h 23min		3h 37 min	
		ηwh (water heating efficiency)		%		89		115		89		115		89		115	
		Qelec (Daily electricity consumption)		kWh		5.500		6.820		5.500		6.820		5.500		6.820	
		Reference hot water temperature		°C		46.3		44.7		46.3		44.7		46.3		44.7	
		Stand-by power input		W		45.5		34.3		45.5		34.3		45.5		34.3	
		AEC (Annual electricity consumption)		kWh		759		1,021		759		1,021		759		1,021	
	Warm climate	COPdhw				3.19		3.96		3.19		3.96		3.19		3.96	
		Heat up time				2h 18min		3h 17min		2h 18min		3h 17min		2h 18min		3h 17min	
		ηwh (water heating efficiency)		%		135		164		135		164		135		164	
		Qelec (Daily electricity consumption)		kWh		3.650		4.820		3.650		4.820		3.650		4.820	
		Reference hot water temperature		°C		47.2		44.7		47.2		44.7		47.2		44.7	
		Stand-by power input		W		35.2		30.7		35.2		30.7		35.2		30.7	

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Technical specifications					ELSXB12P30E + ERRA08EW17	ELSXB12P50E + ERRA08EW17	ELSXB12P30E + ERRA10EW17	ELSXB12P50E + ERRA10EW17	ELSXB12P30E + ERRA12EW17	ELSXB12P50E + ERRA12EW17	
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,210						
			ηs (Seasonal space heating efficiency)	%	140						
			Prated at -10°C	kW	12.5						
			SCOP		3.58						
			Seasonal space heating eff. class		A++						
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0						
			COPd		2.34						
			Pdh	kW	7.6						
			PERd	%	93.6						
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0						
			COPd		3.50						
			Pdh	kW	6.8						
			PERd	%	140.0						
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1.0						
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/-6°CWB)	COPd		5.07						
			Pdh	kW	4.5						
			PERd	%	202.8						
			Cdh (Degradation heating)		1.0						
		D Condition (12°CDB/-1°CWB)	COPd		6.23						
			Pdh	kW	5.2						
			PERd	%	249.2						
			COPd		2.06						
		Tol (temperature operating limit)	Pdh	kW	8.2						
			PERd	%	82.4						
			TOL	°C	-10						
			WTOL	°C	55						
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	4.3						
		Tbiv (bivalent temperature)	COPd		2.06						
			Pdh	kW	8.2						
			PERd	%	82.4						
			Tbiv	°C	-5						
		Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		6,890		6,861	
				ηs (Seasonal space heating efficiency)	%	123		126			
				Prated at -22°C	kW	9.0					
				Qhe Annual energy consumption (GCV)	Gj	25					
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0					
				COPd		2.61					
				Pdh	kW	5.2					
				PERd	%	104.2		104.4			
			B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0					
COPd				3.90							
Pdh	kW			3.3							
PERd	%			156.0							
C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1.0							
	COPd			4.96							
	Pdh		kW	3.4							
	PERd		%	198.3							
D Condition (12°CDB/-1°CWB)	COPd			6.56							
	Pdh		kW	4.2							
	PERd		%	262.5							
	Tol (temperature operating limit)		COPd		1.49		1.56		1.62		

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Technical specifications					ELSXB12P30E + ERRA08EW17	ELSXB12P50E + ERRA08EW17	ELSXB12P30E + ERRA10EW17	ELSXB12P50E + ERRA10EW17	ELSXB12P30E + ERRA12EW17	ELSXB12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit)	Pdh	kW	4.9		6.1		7.2	
			PERd	%	59.6		62.3		64.7	
			TOL	°C			-22			
			WTOL	°C			55			
			G Condition (-15°CDB/-)			2.00		2.03		
			Pdh	kW		6.0		7.2		
			PERd	%		80.0		81.2		
			Tbiv			2.25		2.03		
			Pdh	kW		6.6		7.2		
			PERd	%		90.0		81.2		
			Tbiv	°C		-12		-15		
			Rated heat output supplementary capacity			4.1		2.9		1.8
Warm climate water outlet 55°C	General		Annual energy consumption	kWh	2,853					
			ηs (Seasonal space heating efficiency)	%	177					
			Prated at 2°C	kW	9.6					
			Qhe Annual energy consumption (GCV)	Gj	10					
			B Condition (2°CDB/-)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
			C Condition (7°CDB/-)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
			D Condition (12°CDB/-)		1.0					
			COPd		5.87					
			Pdh	kW	3.6					
			PERd	%	234.9					
			Tbiv		3.13					
			Pdh	kW	8.4					
			PERd	%	125.4					
			Tbiv	°C	4					
Average climate water outlet 35°C	General		Annual energy consumption	kWh	3,462	3,440				
			ηs (Seasonal space heating efficiency)	%	195	196				
			Prated at -10°C	kW	8.3					
			Qhe Annual energy consumption (GCV)	Gj	12					
			SCOP		4.95	4.98				

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Technical specifications				ELSXB12P30E + ERRA08EW17	ELSXB12P50E + ERRA08EW17	ELSXB12P30E + ERRA10EW17	ELSXB12P50E + ERRA10EW17	ELSXB12P30E + ERRA12EW17	ELSXB12P50E + ERRA12EW17	
2 Space heating	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++						
		A Condition	COPd	3.20						
		(-7°C)-	Pdh	7.5						
		B/-8°CWB	PERd	128.0						
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	4.93						
		B/1°CWB	Pdh	4.4						
			PERd	197.2						
		C Condition	Cdh (Degradation heating)	1.0						
		(7°C)-	COPd	6.37						
		B/6°CWB	Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition	Cdh (Degradation heating)	1.0						
		(12°C)-	COPd	8.13						
		B/11°CWB	Pdh	kW	6.6					
			PERd	%	325.2					
		Tol	COPd		2.90					2.86
		(tem-	Pdh	kW	6.9					8.1
		per-	PERd	%	116.0					114.4
		ature	TOL	°C	-10					
		oper-	WTOL	°C	35					
		ating								
		limit)								
		Tbiv	COPd		3.20					2.86
		(biva-	Pdh	kW	7.5					8.1
		lent	PERd	%	128.0					114.4
		tem-	Tbiv	°C	-7					-10
pera-										
ture)										
Rated heat	Psup (at Tdesign -10°C)	kW	1.4					0.0		
output sup-										
plementary										
capacity										
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,334	5,180			5,165		
		ηs (Seasonal space heating efficiency)	%	163	168			169		
		Prated at -22°C	kW	9						
		Qhe Annual energy consumption (GCV)	Gj	19.2	18.6					
		A Condition	COPd	3.48						
		(-7°C)-	Pdh	kW	5.4					
		B/-8°CWB	PERd	%	139.2					
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	5.40						
		B/1°CWB	Pdh	kW	3.6					
			PERd	%	216.0					

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Technical specifications				ELSB12P30E + ERRA08EW17	ELSB12P50E + ERRA08EW17	ELSB12P30E + ERRA10EW17	ELSB12P50E + ERRA10EW17	ELSB12P30E + ERRA12EW17	ELSB12P50E + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB) B(6°CWB)	Cdh (Degradation heating)				1.0		
			COPd				6.53		
			Pdh kW				5.3		
			PERd %				261.2		
		D Condition (12°CDB) B(11°CWB)	Cdh (Degradation heating)				1.0		
			COPd				7.98		
			Pdh kW				6.6		
			PERd %		319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11		2.14		2.16
			Pdh kW		4.9		5.9		6.5
			PERd %		84.3		85.6		86.4
			TOL °C				-22		
			WTOL °C				35		
	Warm climate water outlet 35°C	G Condition (-15°CDB/Δ)	COPd		2.68		2.64		
			Pdh kW		6.0		7.0		
			PERd %		107.1		105.6		
		Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh kW		6.5		7.0		
			PERd %		118.1		105.6		
			Tbiv °C		-12		-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C) kW		4.1		3.1		2.6
	Space heating 	General	Annual energy consumption kWh				1,873		
			ηs (Seasonal space heating efficiency) %				242		
			Prated at 2°C kW				8.6		
			Qhe Annual energy consumption (GCV) GJ				7		
		B Condition (2°CDB) B(1°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.17		
			Pdh kW				6.8		
			PERd %				166.8		
		C Condition (7°CDB) B(6°CWB)	Cdh (Degradation heating)				1.0		
			COPd				5.85		
			Pdh kW				5.5		
			PERd %				234.0		
		Tbiv (biva- lent tem- pera- ture)	COPd				4.89		
			Pdh kW				6.8		
			PERd %				195.6		
			Tbiv °C				5		
	Warm climate water outlet 35°C	D Condition (12°CDB) B(11°CWB)	Cdh (Degradation heating)				1.0		
			COPd				7.78		
			Pdh kW				6.1		
			PERd %				311.2		

- (1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2)Condition: Ta DB/WB 7°C/6°C - IWC 35°C (DT = 5°C) |
(3)Cooling: EW 12°C; IW 7°C; ambient conditions: 35°CDB |
(4)Cooling: EW 23°C; IW 18°C; ambient conditions: 35°CDB |
(5)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7)DB/WB 7°C/6°C - IWC 35°C (dT=5°C) with pump at full speed

Technical specifications				ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F					
Heating capacity	Min.	kW					3.45 (1)		
	Nom.	kW					6.17 (2)		
	Max.	kW		7.95 (1)		9.25 (1)		9.97 (1)	

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Technical specifications			ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17
Power input	Heating	Min.	0.70 (5)					
		Nom.	1.21 (2)					
		Max.	1.63 (5)					
	Domestic hot water from 10°C to 50°C	Nom.	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)
Heat up time from 10°C to 50°C			1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min
COP			5.10 (2)					
Pump	Type		Grundfos UP4L K 15-75 130 9 DK1					
	Nominal ESP unit	Heating	67.1 (7)					
Water side Heat exchanger	Water flow rate	Heating Nom.	18.3					
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 (according to EN14825)	dB(A)	44.0					
	LW(A) Sound power level (according to EN14825)	dB(A)	56.0					
	Sound condition Ecodesign and energy label		Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Air to water unit	Rated airflow (outdoor)	3,542					
		Other	Inverter					
	Capacity control	Pck (Crankcase heater mode)	0.000					
		Poff (Off mode)	0.027					
		Psb (Standby mode)	0.027					
		Pto (Thermostat off)	0.024					
Domestic hot water heating	General	Declared load profile	L					
Space heating general	Integrated supplementary heater	Psup	6.0					
		Type of energy input	Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	851	787	851	787	851	787

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Technical specifications				ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17			
Domestic hot water heating 	Average	COPdhw		2.80	3.05	2.80	3.05	2.80	3.05			
		Heat up time		1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min			
	climate	ηwh (water heating efficiency)	%	120	130	120	130	120	130			
		Qelec (Daily electricity consumption)	kWh	4.160	3.830	4.160	3.830	4.160	3.830			
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0			
		Stand-by power input	W	50.7	43.9	50.7	43.9	50.7	43.9			
		Water heating energy efficiency class		A+								
	Cold climate	AEC (Annual electricity consumption)	kWh	937	866	937	866	937	866			
		COPdhw		2.55	2.77	2.55	2.77	2.55	2.77			
		Heat up time		1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min			
		ηwh (water heating efficiency)	%	109	118	109	118	109	118			
		Qelec (Daily electricity consumption)	kWh	4.570	4.200	4.570	4.200	4.570	4.200			
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0			
		Stand-by power input	W	54.3	46.7	54.3	46.7	54.3	46.7			
	Warm climate	AEC (Annual electricity consumption)	kWh	699	648	699	648	699	648			
		COPdhw		3.40	3.68	3.40	3.68	3.40	3.68			
		Heat up time		1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min			
		ηwh (water heating efficiency)	%	147	158	147	158	147	158			
		Qelec (Daily electricity consumption)	kWh	3.430	3.160	3.430	3.160	3.430	3.160			
Reference hot water temperature		°C	53.0	52.0	53.0	52.0	53.0	52.0				
Stand-by power input		W	44.6	39.0	44.6	39.0	44.6	39.0				
Space heating 	Average	General	Annual energy consumption	kWh	7,541		7,522		7,309			
		climate water outlet 55°C	ηs (Seasonal space heating efficiency)	%			134				138	
	Prated at -10°C		kW	12.5								
	Qhe Annual energy consumption (GCV)		Gj	27						26		
	SCOP			3.42		3.43		3.53				
	Seasonal space heating eff. class			A++								
	A Condition		Cdh (Degradation heating)	1.0								
	(-7°CDB/-8°CWB)		COPd	2.34								
			Pdh	kW	7.6							
			PERd	%	93.6							
	B Condition		Cdh (Degradation heating)	1.0								
	(2°CDB/7°CWB)		COPd	3.50								
			Pdh	kW	6.8							
			PERd	%	140.0							
	C Condition		Cdh (Degradation heating)	1.0								
	(7°CDB/17°CWB)		COPd	5.07								

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Technical specifications					ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17
Space heating 	Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit)	PERd	%	59.6		62.3		64.7	
			TOL	°C			-22			
			WTOL	°C			55			
			G Condition (-15°CDB/-)		2.00		2.03			
			Pdh	kW	6.0		7.2			
			PERd	%	80.0		81.2			
			Tbiv		2.25		2.03			
			(biva- lent		6.6		7.2			
			tem- pera- ture)		90.0		81.2			
			Tbiv	°C	-12		-15			
			Rated heat output supplementary capacity		4.1		2.9		1.8	
			General							
			Annual energy consumption	kWh			2,972			
			ηs (Seasonal space heating efficiency)	%			170			
			Prated at 2°C	kW			9.6			
			Qhe Annual energy consumption (GCV)	Gj			11			
Warm climate water outlet 55°C			B Condition (2°CDB/-)				1.0			
			Cdh (Degradation heating)				2.66			
			COPd				8.0			
			Pdh	kW			106.5			
			PERd	%			1.0			
			C Condition (7°CDB/-)				3.79			
			Cdh (Degradation heating)				6.7			
			COPd				151.5			
			Pdh	kW			1.0			
			PERd	%			5.87			
			D Condition (12°CDB/-)				3.6			
			Cdh (Degradation heating)				234.9			
			COPd				3.13			
			Pdh	kW			8.4			
			PERd	%			125.4			
Average climate water outlet 35°C			Tbiv	°C			4			
			General							
			Annual energy consumption	kWh	3,561				3,539	
			ηs (Seasonal space heating efficiency)	%	190				191	
			Prated at -10°C	kW			8.3			
			Qhe Annual energy consumption (GCV)	Gj			13			
			SCOP		4.81				4.84	
			Seasonal space heating eff. class						A+++	

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Technical specifications				ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/6°CWB)	COPd				3.20		
			Pdh kW				7.5		
			PERd %				128.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.93		
			Pdh kW				4.4		
			PERd %				197.2		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0		
			COPd				6.37		
			Pdh kW				4.3		
			PERd %				254.8		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0		
			COPd				8.13		
			Pdh kW				6.6		
			PERd %				325.2		
	Tolerance operating limit)	Tol COPd		2.90			2.86		
			Pdh kW	6.9			8.1		
			PERd %	116.0			114.4		
		TOL °C					-10		
			WTOL °C				35		
	Tbiv (bivalent temperature)	COPd		3.20			2.86		
			Pdh kW	7.5			8.1		
			PERd %	128.0			114.4		
		Tbiv °C		-7			-10		
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4			0.0		
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394			5,239		5,224
			ηs (Seasonal space heating efficiency)	162			166		167
		Prated at -22°C	kW				9		
			Qhe Annual energy consumption (GCV)	19.4			18.9		18.8
		A Condition (-7°CDB/6°CWB)	COPd				3.48		
			Pdh kW				5.4		
			PERd %				139.2		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0		
			COPd				5.40		
			Pdh kW				3.6		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	PERd %				216.0		
			Cdh (Degradation heating)				1.0		

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Technical specifications				ELVH12S18E6V + ERRA08EW17	ELVH12S23E6V + ERRA08EW17	ELVH12S18E6V + ERRA10EW17	ELVH12S23E6V + ERRA10EW17	ELVH12S18E6V + ERRA12EW17	ELVH12S23E6V + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB) B (6°CWB)	COPd				6.53		
			Pdh	kW			5.3		
			PERd	%			261.2		
		D Condition (12°CDB) B (11°CWB)	CdH (Degradation heating)				1.0		
			COPd				7.98		
			Pdh	kW			6.6		
			PERd	%	319.0		319.2		
		Tol (temperature operating limit)	COPd		2.11		2.14		2.16
			Pdh	kW	4.9		5.9		6.5
			PERd	%	84.3		85.6		86.4
		G Condition (-15°CDB)	TOL	°C			-22		
			WTOL	°C			35		
			COPd		2.68		2.64		
		Tbiv (bivalent temperature)	Pdh	kW	6.0		7.0		
			PERd	%	107.1		105.6		
			COPd		2.95		2.64		
	Warm climate water outlet 35°C	B Condition (2°CDB) B (1°CWB)	Pdh	kW	6.5		7.0		
			PERd	%	118.1		105.6		
			Tbiv	°C	-12		-15		
		C Condition (7°CDB) B (6°CWB)	Rated heat output supplementary capacity	kW	4.1		3.1		2.6
			General	Annual energy consumption	kWh		1,993		
			ηs (Seasonal space heating efficiency)	%			228		
		D Condition (12°CDB) B (11°CWB)	Prated at 2°C	kW			8.6		
			Qhe Annual energy consumption (GCV)	Gj			7		
			Cdh (Degradation heating)				1.0		
		E Condition (17°CDB) B (16°CWB)	COPd				4.17		
			Pdh	kW			6.8		
			PERd	%			166.8		
		F Condition (22°CDB) B (21°CWB)	Cdh (Degradation heating)				1.0		
			COPd				5.85		
			Pdh	kW			5.5		
		G Condition (27°CDB) B (26°CWB)	PERd	%			234.0		
			COPd				4.89		
			Pdh	kW			6.8		
		H Condition (32°CDB) B (31°CWB)	PERd	%			195.6		
			Tbiv	°C			5		
			Cdh (Degradation heating)				1.0		
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB) B (11°CWB)	COPd				7.78		
			Pdh	kW			6.1		
			PERd	%			311.2		

- (1) Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2) Condition: Ta DB/WB 7°C/6°C - IWC 35°C (dT = 5°C) |
(3) Cooling: EW 12°C; IW 7°C; ambient conditions: 35°CDB |
(4) Cooling: EW 23°C; IW 18°C; ambient conditions: 35°CDB |
(5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6) Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7) DB/WB 7°C/6°C - IWC 35°C (dT=5°C) with pump at full speed

Technical specifications				ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F					
Heating capacity	Min.		kW				3.45 (1)		
	Nom.		kW				6.17 (2)		
	Max.		kW		7.95 (1)		9.25 (1)		9.97 (1)

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Technical specifications				ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17	
Power input	Heating	Min.	kW	0.70 (5)						
		Nom.	kW	1.21 (2)						
		Max.	kW	1.63 (5)		1.98 (5)		2.21 (5)		
	Domes- tic hot water from 10°C to 50°C	Nom.	kWh	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	
Heat up time from 10°C to 50°C			hr	1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min	
COP				5.10 (2)						
Pump	Type	Grundfos UPM4L K 15-75 130 9 DKI								
	Nomi- nal ESP unit	Heating	kPa	67.1 (7)						
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3						
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product de- scrip- tion	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 (according to EN14825)	dB(A)	dBA	44.0						
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA	56.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L		
Space heating general	Air to water unit	Rated airflow (outdoor)		3,542						
		Other	Capacity control		Inverter					
		Pck (Crankcase heater mode)		0.000						
		Poff (Off mode)		0.027						
		Psb (Standby mode)		0.027						
		Pto (Thermostat off)		0.024						
Domestic hot water heating	General	Declared load profile		L						
Space heating general	Inte- grated supple- men- tary heater	Psup		9.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)		kWh	851	787	851	787	851	787

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Technical specifications			ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17	
Domestic hot water heating 	Average	COP _{dhw}	2.80	3.05	2.80	3.05	2.80	3.05	
		Heat up time	1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min	
	climate	η _{wh} (water heating efficiency) %	120	130	120	130	120	130	
		Q _{elec} (Daily electricity consumption) kWh	4.160	3.830	4.160	3.830	4.160	3.830	
		Reference hot water temperature °C	53.0	52.0	53.0	52.0	53.0	52.0	
		Stand-by power input W	50.7	43.9	50.7	43.9	50.7	43.9	
		Water heating energy efficiency class	A+						
	Cold climate	AEC (Annual electricity consumption) kWh	937	866	937	866	937	866	
		COP _{dhw}	2.55	2.77	2.55	2.77	2.55	2.77	
		Heat up time	1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min	
		η _{wh} (water heating efficiency) %	109	118	109	118	109	118	
		Q _{elec} (Daily electricity consumption) kWh	4.570	4.200	4.570	4.200	4.570	4.200	
	Warm climate	Reference hot water temperature °C	53.0	52.0	53.0	52.0	53.0	52.0	
		Stand-by power input W	54.3	46.7	54.3	46.7	54.3	46.7	
		AEC (Annual electricity consumption) kWh	699	648	699	648	699	648	
		COP _{dhw}	3.40	3.68	3.40	3.68	3.40	3.68	
		Heat up time	1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min	
		η _{wh} (water heating efficiency) %	147	158	147	158	147	158	
		Q _{elec} (Daily electricity consumption) kWh	3.430	3.160	3.430	3.160	3.430	3.160	
Reference hot water temperature °C		53.0	52.0	53.0	52.0	53.0	52.0		
Stand-by power input W		44.6	39.0	44.6	39.0	44.6	39.0		
Space heating 	Average climate water outlet 55°C	General Annual energy consumption kWh	7,541		7,522		7,309		
		η _s (Seasonal space heating efficiency) %	134						138
		Prated at -10°C kW	12.5						
		Q _{he} Annual energy consumption (GCV) GJ	27						26
		SCOP	3.42		3.43		3.53		
		Seasonal space heating eff. class	A++						
		A Condition (-7°CDB) C _{dh} (Degradation heating)	1.0						
		COP _d	2.34						
		B (-8°CWB) P _{dh} kW	7.6						
		PER _d %	93.6						
		B Condition (2°CDB) C _{dh} (Degradation heating)	1.0						
		COP _d	3.50						
		B (7°CWB) P _{dh} kW	6.8						
		PER _d %	140.0						
		C Condition (7°CDB) C _{dh} (Degradation heating)	1.0						
		COP _d	5.07						

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Technical specifications				ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17
2 Space heating Aver- age climate water outlet 55°C D (Condition 12°C)- B (11°CWB) Tol (tem- per- ature oper- ating limit) Rated heat output sup- plementary capacity T (biva- lent tem- pera- ture) Cold climate water outlet 55°C General A (Condition -7°C)- B (-8°CWB) B (Condition 2°C)- B (7°CWB) C (Condition 7°C)- B (6°CWB) D (Condition 12°C)- B (11°CWB) Tol (tem-		C Condition (7°C)- B (6°CWB)	Pdh PERd	kW %					
			Cdh (Degradation heating)						
			COPd						
			Pdh	kW					
			PERd	%					
			Tol	COPd	2.04			2.06	
			Pdh	kW	6.9			8.2	
			PERd	%	81.6			82.4	
			TOL	°C				-10	
			WTOL	°C				55	
			Psup (at Tdesign -10°C)	kW	5.6			4.3	
			Tbiv	COPd		2.90			2.48
			Pdh	kW		8.5			10.0
			PERd	%		116.0			99.2
			Tbiv	°C		-2			-5
			Annual energy consumption	kWh	7,088		6,950		6,921
			ηs (Seasonal space heating efficiency)	%	122			125	
			Prated at -22°C	kW			9.0		
			Qhe Annual energy consumption (GCV)	Gj	26			25	
			Cdh (Degradation heating)						
			COPd						
			Pdh	kW					
			PERd	%	104.2			104.4	
			Cdh (Degradation heating)						
			COPd						
			Pdh	kW					
			PERd	%					
			Cdh (Degradation heating)						
			COPd						
			Pdh	kW					
			PERd	%					
			Cdh (Degradation heating)						
			COPd						
			Pdh	kW					
			PERd	%					
			Tol	COPd	1.49		1.56		1.62
			Pdh	kW	4.9		6.1		7.2

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Technical specifications					ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17
Space heating 	Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit)	PERd	%	59.6		62.3		64.7	
			TOL	°C			-22			
			WTOL	°C			55			
			G Condition (-15°CDB/-)		2.00		2.03			
			Pdh	kW	6.0		7.2			
			PERd	%	80.0		81.2			
			Tbiv		2.25		2.03			
			(biva- lent		6.6		7.2			
			tem- pera- ture)		90.0		81.2			
			Tbiv	°C	-12		-15			
			Rated heat output supplementary capacity		4.1		2.9		1.8	
			General							
			Annual energy consumption	kWh			2,972			
			ηs (Seasonal space heating efficiency)	%			170			
			Prated at 2°C	kW			9.6			
			Qhe Annual energy consumption (GCV)	Gj			11			
Warm climate water outlet 55°C			B Condition (2°CDB/-)				1.0			
			Cdh (Degradation heating)				2.66			
			COPd				8.0			
			Pdh	kW			106.5			
			PERd	%			1.0			
			C Condition (7°CDB/-)				3.79			
			Cdh (Degradation heating)				6.7			
			COPd				151.5			
			Pdh	kW			1.0			
			PERd	%			5.87			
			D Condition (12°CDB/-)				3.6			
			Cdh (Degradation heating)				234.9			
			COPd				3.13			
			Pdh	kW			8.4			
			PERd	%			125.4			
Average climate water outlet 35°C			Tbiv	°C			4			
			General							
			Annual energy consumption	kWh	3,561				3,539	
			ηs (Seasonal space heating efficiency)	%	190				191	
			Prated at -10°C	kW			8.3			
			Qhe Annual energy consumption (GCV)	Gj			13			
			SCOP		4.81				4.84	
			Seasonal space heating eff. class						A+++	

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Technical specifications				ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/6°CWB)	COPd						3.20
			Pdh	kW					7.5
			PERd	%					128.0
			Cd _h (Degradation heating)						1.0
			COPd						4.93
			Pdh	kW					4.4
			PERd	%					197.2
			Cd _h (Degradation heating)						1.0
			COPd						6.37
			Pdh	kW					4.3
			PERd	%					254.8
			Cd _h (Degradation heating)						1.0
			COPd						8.13
			Pdh	kW					6.6
			PERd	%					325.2
			Tol COPd		2.90			2.86	
			Pdh	kW	6.9			8.1	
			PERd	%	116.0			114.4	
			TOL	°C				-10	
			WTOL	°C				35	
			Tbiv COPd		3.20			2.86	
			Pdh	kW	7.5			8.1	
			PERd	%	128.0			114.4	
			Tbiv	°C	-7			-10	
			Rated heat output supplementary capacity	P _{sup} (at T _{design} -10°C)	1.4			0.0	
Cold climate water outlet 35°C	General	Annual energy consumption	η _s (Seasonal space heating efficiency)	%	5,394		5,239		5,224
			Prated at -22°C	kW	162		166		167
			Q _{he} Annual energy consumption (GCV)	Gj			9		
					19.4		18.9		18.8
		A Condition (-7°CDB/6°CWB)	COPd						3.48
			Pdh	kW					5.4
			PERd	%					139.2
		B Condition (2°CDB/1°CWB)	Cd _h (Degradation heating)						1.0
			COPd						5.40
			Pdh	kW					3.6
			PERd	%					216.0
		C Condition (7°CDB/5°CWB)	Cd _h (Degradation heating)						1.0

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Technical specifications				ELVH12S18E9W + ERRA08EW17	ELVH12S23E9W + ERRA08EW17	ELVH12S18E9W + ERRA10EW17	ELVH12S23E9W + ERRA10EW17	ELVH12S18E9W + ERRA12EW17	ELVH12S23E9W + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB) B (6°CWB)	COPd				6.53		
			Pdh	kW			5.3		
			PERd	%			261.2		
		D Condition (12°CDB) B (11°CWB)	Cdh (Degradation heating)				1.0		
			COPd				7.98		
			Pdh	kW			6.6		
			PERd	%	319.0		319.2		
		Tol (temperature operating limit)	COPd		2.11		2.14		2.16
			Pdh	kW	4.9		5.9		6.5
			PERd	%	84.3		85.6		86.4
		G Condition (-15°CDB)	TOL	°C			-22		
			WTOL	°C			35		
			COPd		2.68		2.64		
		Tbiv (bivalent temperature)	Pdh	kW	6.0		7.0		
			PERd	%	107.1		105.6		
			COPd		2.95		2.64		
	Warm climate water outlet 35°C	B Condition (2°CDB) B (1°CWB)	Pdh	kW	6.5		7.0		
			PERd	%	118.1		105.6		
			Tbiv	°C	-12		-15		
		C Condition (7°CDB) B (6°CWB)	Rated heat output supplementary capacity	kW	4.1		3.1		2.6
			General						
			Annual energy consumption	kWh			1,993		
		D Condition (12°CDB) B (11°CWB)	ηs (Seasonal space heating efficiency)	%			228		
			Prated at 2°C	kW			8.6		
			Qhe Annual energy consumption (GCV)	Gj			7		
		E Condition (17°CDB) B (16°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.17		
			Pdh	kW			6.8		
		F Condition (22°CDB) B (21°CWB)	PERd	%			166.8		
			Cdh (Degradation heating)				1.0		
			COPd				5.85		
		G Condition (27°CDB) B (26°CWB)	Pdh	kW			5.5		
			PERd	%			234.0		
			COPd				4.89		
		H Condition (32°CDB) B (31°CWB)	Pdh	kW			6.8		
			PERd	%			195.6		
			Tbiv	°C			5		
		I Condition (37°CDB) B (36°CWB)	Cdh (Degradation heating)				1.0		
			COPd				7.78		
			Pdh	kW			6.1		
		J Condition (42°CDB) B (41°CWB)	PERd	%			311.2		

- (1) Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(3) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
(4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
(5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6) Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7) DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical specifications				ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F					
Heating capacity	Min.		kW				3.45 (1)		
	Nom.		kW				6.17 (2)		
	Max.		kW		7.95 (1)		9.25 (1)		9.97 (1)
Cooling capacity	Nom.		kW	6.81 (3) / 6.47 (4)		7.97 (3) / 6.47 (4)		8.62 (3) / 6.47 (4)	

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Technical specifications			ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17	
Power input	Heating	Min.	kW						
		Nom.	kW						
		Max.	kW						
	Cooling	Nom.	kW		kW		kW		
		Domes- tic hot water from 10°C to 50°C	Nom.	kWh		kWh		kWh	
Heat up time from 10°C to 50°C		hr	1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min	
COP			5.10 (2)						
EER			3.28 (3) / 5.75 (4)		5.75 (4)		3.01 (3) / 5.75 (4)		
Pump	Type		Grundfos UPM4L K 15-75 130 9 DK1						
	Nomi- nal ESP unit	Heating	kPa	671 (7)					
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min						
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark		Daikin Europe N.V.					
	Product de- scrip- tion	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 (according to EN14825)	dB(A)	dB(A)	44.0					
	LW(A) Sound power level (according to EN14825)		dB(A)	56.0					
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h						
		3,542							
	Other	Capacity control		Inverter					
		Pck (Crankcase heater mode)		kW					
		Poff (Off mode)		kW					
		Psb (Standby mode)		kW					
	Pto (Thermostat off)		kW						
Domestic hot water heating	General	Declared load profile		L					
Space heating general	Inte- grated supple- men- tary heater	Psup	kW						
		Type of energy input		Electrical					

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Technical specifications				ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17
Domestic hot water heating 	Average	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		COP _{dhw}		2.80	3.05	2.80	3.05	2.80	3.05
	climate	Heat up time		1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min
		η _{wh} (water heating efficiency)	%	120	130	120	130	120	130
		Q _{elec} (Daily electricity consumption)	kWh	4.160	3.830	4.160	3.830	4.160	3.830
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	50.7	43.9	50.7	43.9	50.7	43.9
		Water heating energy efficiency class		A+					
	Cold climate	AEC (Annual electricity consumption)	kWh	937	866	937	866	937	866
		COP _{dhw}		2.55	2.77	2.55	2.77	2.55	2.77
		Heat up time		1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min
		η _{wh} (water heating efficiency)	%	109	118	109	118	109	118
		Q _{elec} (Daily electricity consumption)	kWh	4.570	4.200	4.570	4.200	4.570	4.200
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	54.3	46.7	54.3	46.7	54.3	46.7
Space heating 	Average	AEC (Annual electricity consumption)	kWh	699	648	699	648	699	648
		COP _{dhw}		3.40	3.68	3.40	3.68	3.40	3.68
	climate	Heat up time		1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min
		η _{wh} (water heating efficiency)	%	147	158	147	158	147	158
		Q _{elec} (Daily electricity consumption)	kWh	3.430	3.160	3.430	3.160	3.430	3.160
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	44.6	39.0	44.6	39.0	44.6	39.0
	water outlet 55°C	General Annual energy consumption	kWh	7,210					
		η _s (Seasonal space heating efficiency)	%	140					
		Prated at -10°C	kW	12.5					
		SCOP		3.58					
		Seasonal space heating eff. class		A++					
		A Condition Cd _h (Degradation heating)		1.0					
		(-7°C)- COP _d		2.34					
		B (-8°CWB) Pd _h	kW	7.6					
		PER _d	%	93.6					
		B Condition Cd _h (Degradation heating)		1.0					
		(2°C)- COP _d		3.50					
		B (1°CWB) Pd _h	kW	6.8					
		PER _d	%	140.0					

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Technical specifications				ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17		
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/16°CWB)	Cdh (Degradation heating)		1.0						
			COPd		5.07						
			Pdh		4.5						
			PERd		202.8						
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0						
			COPd		6.23						
			Pdh		5.2						
			PERd		249.2						
		Tol (temperature operating limit)	COPd		2.06						
			Pdh		8.2						
			PERd		82.4						
			TOL		-10						
			WTOL		55						
		Rated heat output supplementary capacity		Psup (at Tdesign -10°C)	4.3						
	Tbiv (bivalent temperature)	COPd		2.06							
		Pdh		8.2							
		PERd		82.4							
		Tbiv		-5							
	Cold climate water outlet 55°C	General	Annual energy consumption		kWh	7,028		6,890		6,861	
			ηs (Seasonal space heating efficiency)		%	123		126			
			Prated at -22°C		kW	9.0					
			Qhe Annual energy consumption (GCV)		Gj	25					
		A Condition (-7°CDB/8°CWB)	Cdh (Degradation heating)			1.0					
			COPd			2.61					
			Pdh		kW	5.2					
			PERd		%	104.2		104.4			
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0					
			COPd			3.90					
			Pdh		kW	3.3					
			PERd		%	156.0					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0					
			COPd			4.96					
	Pdh		kW	3.4							
	PERd		%	198.3							
	D Condition (12°CDB/11°CWB)	COPd			6.56						
		Pdh		kW	4.2						
		PERd		%	262.5						

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Technical specifications				ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17
Space heating Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit) G (Condition (-15°CDB/-) Tbiv (biva- lent tem- pera- ture) Rated heat output supplementary capacity	COPd PdH PERd TOL WTOL COPd PdH PERd COPd PdH PERd Tbiv Psup (at Tdesign -22°C)	kW kW % °C °C kW kW % kW kW % °C kW	1.49		1.56		1.62	
				4.9		6.1		7.2	
				59.6		62.3		64.7	
						-22			
						55			
				2.00		2.03			
				6.0		7.2			
				80.0		81.2			
				2.25		2.03			
				6.6		7.2			
				90.0		81.2			
				-12		-15			
				4.1		2.9		1.8	
Warm climate water outlet 55°C	General B (Condition (2°CDB/-) B (1°CWB) C (Condition (7°CDB/-) B (6°CWB) D (Condition (12°CDB/-) B (11°CWB) Tbiv (biva- lent tem-) General	Annual energy consumption ηs (Seasonal space heating efficiency) Prated at 2°C Qhe Annual energy consumption (GCV) CdH (Degradation heating) COPd PdH PERd CdH (Degradation heating) COPd PdH PERd CdH (Degradation heating) COPd PdH PERd COPd PdH PERd Tbiv Annual energy consumption ηs (Seasonal space heating efficiency) Prated at -10°C Qhe Annual energy consumption (GCV)	kWh % kW Gj kW kW % kW kW % kW kW % kW kW % °C kWh % kW Gj			2,853			
						177			
						9.6			
						10			
						1.0			
						2.66			
						8.0			
						106.5			
						1.0			
						3.79			
						6.7			
						151.5			
						1.0			
						5.87			
						3.6			
						234.9			
						3.13			
						8.4			
						125.4			
						4			
Average climate water outlet 35°C	General	Annual energy consumption ηs (Seasonal space heating efficiency) Prated at -10°C Qhe Annual energy consumption (GCV)	kWh % kW Gj	3,462		3,440			
				195		196			
						8.3			
						12			

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Technical specifications				ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17			
Space heating 	Average climate water outlet 35°C	General	SCOP	4.95			4.98					
			Seasonal space heating eff. class			A+++						
			A Condition	COPd			3.20					
			(-7°C/-B/-8°CWB)	Pdh	kW			7.5				
				PERd	%			128.0				
			B Condition (2°C/-B/1°CWB)	Cdh (Degradation heating)			1.0					
				COPd				4.93				
				Pdh	kW			4.4				
				PERd	%			197.2				
				C Condition (7°C/-B/6°CWB)	Cdh (Degradation heating)			1.0				
				COPd				6.37				
				Pdh	kW			4.3				
				PERd	%			254.8				
			D Condition (12°C/-B/11°CWB)	Cdh (Degradation heating)			1.0					
				COPd				8.13				
				Pdh	kW			6.6				
				PERd	%			325.2				
				Tol (tem-	COPd	2.90		2.86				
			per-ature	Pdh	kW		8.1					
				PERd	%		114.4					
				TOL	°C		-10					
			oper-ating limit)	WTOL	°C		35					
				Tbiv (biva-	COPd	3.20		2.86				
			lent	Pdh	kW		8.1					
				PERd	%		114.4					
				Tbiv	°C		-10					
			tem-perature)									
				Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0.0				
			Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,334		5,180		5,165	
					ηs (Seasonal space heating efficiency)	%	163		168		169	
Prated at -22°C	kW	9										
Qhe Annual energy consumption (GCV)	Gj	19.2			18.6							
A Condition (-7°C/-B/-8°CWB)	COPd	3.48										
	Pdh	5.4										
	PERd	139.2										
B Condition (2°C/-B/1°CWB)	Cdh (Degradation heating)				1.0							
	COPd	5.40										
	Pdh	3.6										

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Technical specifications					ELVX12S18E6V + ERRA08EW17	ELVX12S23E6V + ERRA08EW17	ELVX12S18E6V + ERRA10EW17	ELVX12S23E6V + ERRA10EW17	ELVX12S18E6V + ERRA12EW17	ELVX12S23E6V + ERRA12EW17	
Space heating 	Cold climate water outlet 35°C	B (Condition 2°C DB/1°C WB)	PERd	%	216.0						
			C (Condition 7°C DB/1°C WB)	CdH (Degradation heating)		1.0					
				COPd		6.53					
				PdH	kW	5.3					
				PERd	%	261.2					
			D (Condition 12°C DB/11°C WB)	CdH (Degradation heating)		1.0					
				COPd		7.98					
				PdH	kW	6.6					
				PERd	%	319.0		319.2			
			Tol (temperature operating limit)	COPd		2.11		2.14		2.16	
				PdH	kW	4.9		5.9		6.5	
				PERd	%	84.3		85.6		86.4	
				TOL	°C	-22					
			WTOL	°C	35						
			G (Condition -15°C DB/-1°C WB)	COPd		2.68		2.64			
				PdH	kW	6.0		7.0			
				PERd	%	107.1		105.6			
				Tbiv (bivalent temperature)	COPd		2.95		2.64		
			PdH		kW	6.5		7.0			
PERd	%	118.1			105.6						
Tbiv	°C	-12			-15						
Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	4.1		3.1		2.6				
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	1,873							
		ηs (Seasonal space heating efficiency)	%	242							
		Prated at 2°C	kW	8.6							
		Qhe Annual energy consumption (GCV)	Gj	7							
		B (Condition 2°C DB/1°C WB)	CdH (Degradation heating)		1.0						
			COPd		4.17						
			PdH	kW	6.8						
			PERd	%	166.8						
		C (Condition 7°C DB/1°C WB)	CdH (Degradation heating)		1.0						
			COPd		5.85						
			PdH	kW	5.5						
			PERd	%	234.0						
		Tbiv (bivalent)	COPd		4.89						
			PdH	kW	6.8						
		PERd	%	195.6							
		Space heating 	Warm climate water outlet 35°C	Tbiv (bivalent temperature)	Tbiv	°C	5				
D (Condition 12°C DB/11°C WB)	CdH (Degradation heating)				1.0						
	COPd				7.78						
	PdH				kW	6.1					
	PERd				%	311.2					

(1) Capacity according to standard EN14511 and valid for heated water range $dT = 3-8^{\circ}\text{C}$ at $T_a 7^{\circ}\text{C}$ |
 (2) Condition: Ta DB/WB $7^{\circ}\text{C}/6^{\circ}\text{C}$ - LWC 35°C ($dT = 5^{\circ}\text{C}$) |
 (3) Cooling: EW 12°C ; IW 7°C ; ambient conditions: 35°CDB |
 (4) Cooling: EW 23°C ; IW 18°C ; ambient conditions: 35°CDB |
 (5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
 (6) Test at Ta DB/WB $7^{\circ}\text{C}/6^{\circ}\text{C}$. According to EN 16147. |
 (7) DB/WB $7^{\circ}\text{C}/6^{\circ}\text{C}$ - LWC 35°C ($dT=5^{\circ}\text{C}$) with pump at full speed

Technical specifications	ELVX12S18E9W	ELVX12S23E9W	ELVX12S18E9W	ELVX12S23E9W	ELVX12S18E9W	ELVX12S23E9W
	+ERRA08EW17	+ERRA08EW17	+ERRA10EW17	+ERRA10EW17	+ERRA12EW17	+ERRA12EW17
Energy Efficiency Range	Space Heating A+++ ~ D, Water Heating A+ ~ F					

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Technical specifications				ELVX12S18E9W + ERRA08EW17	ELVX12S23E9W + ERRA08EW17	ELVX12S18E9W + ERRA10EW17	ELVX12S23E9W + ERRA10EW17	ELVX12S18E9W + ERRA12EW17	ELVX12S23E9W + ERRA12EW17
Heating capacity	Min.		kW	3.45 (1)					
	Nom.		kW	6.17 (2)					
	Max.		kW	7.95 (1)		9.25 (1)		9.97 (1)	
Cooling capacity	Nom.		kW	6.81 (3) / 6.47 (4)		7.97 (3) / 6.47 (4)		8.62 (3) / 6.47 (4)	
Power input	Heating Min.		kW	0.70 (5)					
	Nom.		kW	1.21 (2)					
	Max.		kW	1.63 (5)		1.98 (5)		2.21 (5)	
	Cooling Nom.		kW	2.08 (3) / 1.13 (4)		2.57 (3) / 1.13 (4)		2.86 (3) / 1.13 (4)	
	Domes- tic hot water from 10°C to 50°C	Nom.	kWh	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)
	Heat up time from 10°C to 50°C		hr	1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min
COP			5.10 (2)						
EER			3.28 (3) / 5.75 (4)		5.75 (4)		3.01 (3) / 5.75 (4)		
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKl					
	Nomi- nal ESP unit	Heating	kPa	67.1 (7)					
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3					
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark		Daikin Europe N.V.					
	Product de- scrip- tion	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					
	LW(A) Sound power level (according to EN14825)	Water-to-water heat pump		No					
		dB(A)	dBA	44.0					
LW(A) Sound power level (according to EN14825)	dB(A)	dBA	56.0						
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	3,542					
	Other	Capacity control		Inverter					
		Pck (Crankcase heater mode)		0.000					
		Poff (Off mode)		0.027					
		Psb (Standby mode)		0.027					
		Pto (Thermostat off)		0.024					
Domestic hot water heating	General	Declared load profile	L						
Space heating general	Inte- grated supple- men- tary heater	Psup	kW	9.0					
		Type of energy input		Electrical					

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Technical specifications				ELVX12S18E9W + ERRA08EW17	ELVX12S23E9W + ERRA08EW17	ELVX12S18E9W + ERRA10EW17	ELVX12S23E9W + ERRA10EW17	ELVX12S18E9W + ERRA12EW17	ELVX12S23E9W + ERRA12EW17
Domestic hot water heating	Average	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		COP _{dhw}		2.80	3.05	2.80	3.05	2.80	3.05
	climate	Heat up time		1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min
		η _{wh} (water heating efficiency)	%	120	130	120	130	120	130
		Q _{elec} (Daily electricity consumption)	kWh	4.160	3.830	4.160	3.830	4.160	3.830
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	50.7	43.9	50.7	43.9	50.7	43.9
		Water heating energy efficiency class		A+					
	Cold climate	AEC (Annual electricity consumption)	kWh	937	866	937	866	937	866
		COP _{dhw}		2.55	2.77	2.55	2.77	2.55	2.77
		Heat up time		1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min
		η _{wh} (water heating efficiency)	%	109	118	109	118	109	118
		Q _{elec} (Daily electricity consumption)	kWh	4.570	4.200	4.570	4.200	4.570	4.200
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
Space heating	Warm climate	Stand-by power input	W	54.3	46.7	54.3	46.7	54.3	46.7
		AEC (Annual electricity consumption)	kWh	699	648	699	648	699	648
		COP _{dhw}		3.40	3.68	3.40	3.68	3.40	3.68
		Heat up time		1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min
		η _{wh} (water heating efficiency)	%	147	158	147	158	147	158
		Q _{elec} (Daily electricity consumption)	kWh	3.430	3.160	3.430	3.160	3.430	3.160
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	44.6	39.0	44.6	39.0	44.6	39.0
	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,210				
			η _s (Seasonal space heating efficiency)	%	140				
		Prated at -10°C			12.5				
			SCOP		3.58				
			Seasonal space heating eff. class		A++				
		A Condition (-7°C)	Cdh (Degradation heating)		1.0				
			COP _d		2.34				
		B (-8°CWB)	Pdh	kW	7.6				
			PER _d	%	93.6				
		B Condition (2°C)	Cdh (Degradation heating)		1.0				
			COP _d		3.50				
		B (1°CWB)	Pdh	kW	6.8				
			PER _d	%	140.0				

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Technical specifications				ELVX12S18E9W + ERRA08EW17	ELVX12S23E9W + ERRA08EW17	ELVX12S18E9W + ERRA10EW17	ELVX12S23E9W + ERRA10EW17	ELVX12S18E9W + ERRA12EW17	ELVX12S23E9W + ERRA12EW17
Space heating	Average climate water outlet 55°C	C Condition (7°CDB/16°CWB)	Cdh (Degradation heating)		1.0				
			COPd		5.07				
			Pdh		4.5				
			PERd		202.8				
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0				
			COPd		6.23				
			Pdh		5.2				
			PERd		249.2				
		Tol (temperature operating limit)	COPd		2.06				
			Pdh		8.2				
			PERd		82.4				
			TOL		-10				
		WTOL		55					
		Rated heat output supplementary capacity		4.3					
		Tbiv (bivalent temperature)	COPd		2.06				
			Pdh		8.2				
PERd			82.4						
Tbiv			-5						
Cold climate water outlet 55°C	General	Annual energy consumption		7,028		6,890		6,861	
		ηs (Seasonal space heating efficiency)		123		126			
		Prated at -22°C				9.0			
		Qhe Annual energy consumption (GCV)				25			
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0			
		COPd				2.61			
		Pdh				5.2			
		PERd		104.2		104.4			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0			
		COPd				3.90			
		Pdh				3.3			
		PERd				156.0			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0			
		COPd				4.96			
		Pdh				3.4			
		PERd				198.3			
	D Condition (12°CDB/11°CWB)	COPd				6.56			
		Pdh				4.2			
		PERd				262.5			

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Technical specifications				ELVX12S18E9W + ERRA08EW17	ELVX12S23E9W + ERRA08EW17	ELVX12S18E9W + ERRA10EW17	ELVX12S23E9W + ERRA10EW17	ELVX12S18E9W + ERRA12EW17	ELVX12S23E9W + ERRA12EW17
Space heating Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit) G (Condition (-15°CDB/-) Tbiv (biva- lent tem- pera- ture) Rated heat output supplementary capacity Warm climate water outlet 55°C Average climate water outlet 35°C	COPd PdH PERd TOL WTOL COPd PdH PERd COPd PdH PERd Tbiv Psup (at Tdesign -22°C) General Annual energy consumption ηs (Seasonal space heating efficiency) Prated at 2°C Qhe Annual energy consumption (GCV) B (Condition (2°CDB/-) PdH PERd C (Condition (7°CDB/-) PdH PERd D (Condition (12°CDB/-) PdH PERd Tbiv COPd PdH PERd Tbiv General Annual energy consumption ηs (Seasonal space heating efficiency) Prated at -10°C Qhe Annual energy consumption (GCV)	kW kW % °C °C kW kW % kW kW % °C kW % Gj kW % kW % kW % kW % °C kW % Gj kW % Gj	1.49		1.56		1.62	
				4.9		6.1		7.2	
				59.6		62.3		64.7	
				°C		-22			
				°C		55			
				2.00		2.03			
				6.0		7.2			
				80.0		81.2			
				2.25		2.03			
				6.6		7.2			
				90.0		81.2			
				-12		-15			
				4.1		2.9		1.8	
						2,853			
						177			
						9.6			
						10			
						1.0			
						2.66			
						8.0			
						106.5			
						1.0			
						3.79			
						6.7			
						151.5			
						1.0			
						5.87			
						3.6			
						234.9			
						3.13			
						8.4			
						125.4			
						4			
						3,462		3,440	
						195		196	
						8.3			
						12			

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Technical specifications				ELVX12S18E9W + ERRA08EW17	ELVX12S23E9W + ERRA08EW17	ELVX12S18E9W + ERRA10EW17	ELVX12S23E9W + ERRA10EW17	ELVX12S18E9W + ERRA12EW17	ELVX12S23E9W + ERRA12EW17				
Space heating	Average climate water outlet 35°C	General	SCOP	4.95		4.98							
			Seasonal space heating eff. class			A+++							
			A Condition	COPd	3.20								
			(-7°CDB/-8°CWB)	Pdh	7.5								
				PERd	128.0								
			B Condition	Cdh (Degradation heating)			1.0						
			(2°CDB/-7°CWB)	COPd	4.93								
				Pdh	4.4								
				PERd	197.2								
			C Condition	Cdh (Degradation heating)			1.0						
			(7°CDB/-6°CWB)	COPd	6.37								
				Pdh	4.3								
				PERd	254.8								
			D Condition	Cdh (Degradation heating)			1.0						
			(12°CDB/-11°CWB)	COPd	8.13								
				Pdh	6.6								
				PERd	325.2								
			Tol	COPd	2.90		2.86						
			(temperature operating limit)	Pdh	6.9		8.1						
				PERd	116.0		114.4						
				TOL	°C		-10						
				WTOL	°C		35						
			Tbiv	COPd	3.20		2.86						
			(bivalent temperature)	Pdh	7.5		8.1						
				PERd	128.0		114.4						
				Tbiv	°C		-10						
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		1.4		0.0				
			Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,334		5,180		5,165		
					ηs (Seasonal space heating efficiency)	%	163		168		169		
					Prated at -22°C	kW	9						
					Qhe Annual energy consumption (GCV)	Gj	19.2		18.6				
					A Condition	COPd	3.48						
					(-7°CDB/-8°CWB)	Pdh	5.4						
						PERd	139.2						
					B Condition	Cdh (Degradation heating)			1.0				
					(2°CDB/-7°CWB)	COPd	5.40						
						Pdh	3.6						

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Technical specifications	ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
	Energy Efficiency Range					
Space Heating A+++ ~ D, Water Heating A+ ~ F						

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Technical specifications				ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
Heating capacity	Min.		kW	3.45 (1)					
	Nom.		kW	6.17 (2)					
	Max.		kW	7.95 (1)		9.25 (1)		9.97 (1)	
Power input	Heating	Min.	kW	0.70 (5)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (5)		1.98 (5)		2.21 (5)	
	Domes- tic hot water from 10°C to 50°C	Nom.	kWh	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)
Heat up time from 10°C to 50°C			hr	1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min
COP				5.10 (2)					
Pump	Type			Grundfos UPM4L K 15-75 130 9 DK1					
Pump Additional Zone	Nomi- nal ESP unit	Heating	kPa	61.4 (7)					
Pump Main Zone	Nomi- nal ESP unit	Heating	kPa	59.5 (7)					
Water side Heat exchanger	Water flow rate	Heating	Nom. l/min	18.3					
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark		Daikin Europe N.V.					
	Product de- scrip- tion	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 (according to EN14825)	dB(A)	dBA	44.0					
	LW(A) Sound power level (according to EN14825)			dB(A)	56.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	3,542					
	Other	Capacity control		Inverter					
		Pck (Crankcase heater mode)		0.000					
		Poff (Off mode)		0.027					
		Psb (Standby mode)		0.027					
		Pto (Thermostat off)		0.024					
Domestic hot water heating	General	Declared load profile		L					
Space heating general	Inte- grated supple- men- tary heater	Psup		6.0					
		Type of energy input		Electrical					

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Technical specifications				ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
Domestic hot water heating 	Average	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		COP _{dhw}		2.80	3.05	2.80	3.05	2.80	3.05
	climate	Heat up time		1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min
		η _{wh} (water heating efficiency)	%	120	130	120	130	120	130
		Q _{elec} (Daily electricity consumption)	kWh	4.160	3.830	4.160	3.830	4.160	3.830
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	50.7	43.9	50.7	43.9	50.7	43.9
		Water heating energy efficiency class		A+					
	Cold climate	AEC (Annual electricity consumption)	kWh	937	866	937	866	937	866
		COP _{dhw}		2.55	2.77	2.55	2.77	2.55	2.77
		Heat up time		1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min
		η _{wh} (water heating efficiency)	%	109	118	109	118	109	118
		Q _{elec} (Daily electricity consumption)	kWh	4.570	4.200	4.570	4.200	4.570	4.200
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	54.3	46.7	54.3	46.7	54.3	46.7
Space heating 	Average	AEC (Annual electricity consumption)	kWh	699	648	699	648	699	648
		COP _{dhw}		3.40	3.68	3.40	3.68	3.40	3.68
	climate	Heat up time		1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min
		η _{wh} (water heating efficiency)	%	147	158	147	158	147	158
		Q _{elec} (Daily electricity consumption)	kWh	3.430	3.160	3.430	3.160	3.430	3.160
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0
		Stand-by power input	W	44.6	39.0	44.6	39.0	44.6	39.0
	water outlet 55°C	General Annual energy consumption	kWh	7,541		7,522		7,309	
		η _s (Seasonal space heating efficiency)	%	134				138	
		Prated at -10°C	kW			12.5			
		Q _{he} Annual energy consumption (GCV)	Gj	27				26	
		SCOP		3.42		3.43		3.53	
		Seasonal space heating eff. class				A++			
		A Condition (-7°C)	Cdh (Degradation heating)			1.0			
			COP _d			2.34			
		B (-8°CWB)	Pdh			7.6			
			PER _d			93.6			
		B Condition (2°C)	Cdh (Degradation heating)			1.0			
			COP _d			3.50			
		B (1°CWB)	Pdh			6.8			
			PER _d			140.0			
		C Condition (7°C)	Cdh (Degradation heating)			1.0			
		B (6°CWB)							

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Technical specifications				ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/16°CWB) D Condition (12°CDB/11°CWB) Tol (temperature operating limit) Rated heat output supplementary capacity	COPd	5.07					
			Pdh kW	4.5					
			PERd %	202.8					
			Cdh (Degradation heating)	1.0					
			COPd	6.23					
			Pdh kW	5.2					
			PERd %	249.2					
			COPd	2.04	2.06				
			Pdh kW	6.9	8.2				
			PERd %	81.6	82.4				
			TOL °C	-10					
			WTOL °C	55					
			Psup (at Tdesign -10°C) kW	5.6	4.3				
			Tbiv COPd	2.90				2.48	
			Pdh kW	8.5				10.0	
			PERd %	116.0				99.2	
			Tbiv °C	-2				-5	
Cold climate water outlet 55°C	General	Annual energy consumption kWh	7,088	6,950				6,921	
		ηs (Seasonal space heating efficiency) %	122	125					
		Prated at -22°C kW	9.0						
		Qhe Annual energy consumption (GCV) GJ	26	25					
	A Condition (-7°CDB/16°CWB)	Cdh (Degradation heating)	1.0						
		COPd	2.61						
		Pdh kW	5.2						
		PERd %	104.2	104.4					
	B Condition (2°CDB/7°CWB)	Cdh (Degradation heating)	1.0						
		COPd	3.90						
		Pdh kW	3.3						
		PERd %	156.0						
	C Condition (7°CDB/16°CWB)	Cdh (Degradation heating)	1.0						
		COPd	4.96						
		Pdh kW	3.4						
		PERd %	198.3						
	D Condition (12°CDB/11°CWB)	COPd	6.56						
		Pdh kW	4.2						
		PERd %	262.5						
		Tol (temperature operating limit)	COPd	1.49	1.56				1.62

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Technical specifications					ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
Space heating Cold climate water outlet 55°C	Tol (tem- per- ature oper- ating limit) G (Condition (-15°CDB/-) Tbiv (biva- lent tem- pera- ture) Rated heat output supplementary capacity	Pdh	kW		4.9		6.1		7.2	
		PERd	%		59.6		62.3		64.7	
		TOL	°C				-22			
		WTOL	°C				55			
		COPd			2.00		2.03			
		Pdh	kW		6.0		7.2			
		PERd	%		80.0		81.2			
		COPd			2.25		2.03			
		Pdh	kW		6.6		7.2			
		PERd	%		90.0		81.2			
		Tbiv	°C		-12		-15			
		Psup (at Tdesign -22°C)	kW		4.1		2.9		1.8	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh			2,972			
			ηs (Seasonal space heating efficiency)	%			170			
			Prated at 2°C	kW			9.6			
			Qhe Annual energy consumption (GCV)	Gj			11			
		B (Condition (2°CDB/-) B/1°CWB)	Cdh (Degradation heating)				1.0			
			COPd				2.66			
			Pdh	kW			8.0			
		C (Condition (7°CDB/-) B/6°CWB)	PERd	%			106.5			
			Cdh (Degradation heating)				1.0			
			COPd				3.79			
		D (Condition (12°CDB/-) B/11°CWB)	Pdh	kW			6.7			
			PERd	%			151.5			
			Cdh (Degradation heating)				1.0			
		Tbiv (biva- lent tem-)	COPd				5.87			
			Pdh	kW			3.6			
			PERd	%			234.9			
		Tbiv	COPd				3.13			
			Pdh	kW			8.4			
			PERd	%			125.4			
		Tbiv	Tbiv	°C			4			
			Annual energy consumption	kWh	3,561		3,539			
			ηs (Seasonal space heating efficiency)	%	190		191			
		Average climate water outlet 35°C	Prated at -10°C	kW			8.3			
			Qhe Annual energy consumption (GCV)	Gj			13			
			SCOP		4.81		4.84			

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Technical specifications				ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17	
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++						
		A Condition	COPd	3.20						
		(-7°C)-	Pdh	kW	7.5					
		B/-8°CWB	PERd	%	128.0					
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	4.93						
		B/1°CWB	Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition	Cdh (Degradation heating)	1.0						
		(7°C)-	COPd	6.37						
		B/6°CWB	Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition	Cdh (Degradation heating)	1.0						
		(12°C)-	COPd	8.13						
		B/11°CWB	Pdh	kW	6.6					
			PERd	%	325.2					
		Tol	COPd	2.90		2.86				
		(tem-	Pdh	kW	6.9		8.1			
		per-	PERd	%	116.0		114.4			
		ature	TOL	°C	-10					
		oper-	WTOL	°C	35					
		ating limit)								
		Tbiv	COPd	3.20		2.86				
		(biva-	Pdh	kW	7.5		8.1			
		lent	PERd	%	128.0		114.4			
		tem-	Tbiv	°C	-7		-10			
pera-										
ture)										
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4		0.0					
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394		5,239		5,224		
		ηs (Seasonal space heating efficiency)	%	162		166		167		
		Prated at -22°C	kW	9						
		Qhe Annual energy consumption (GCV)	Gj	19.4		18.9		18.8		
		A Condition	COPd	3.48						
		(-7°C)-	Pdh	kW	5.4					
		B/-8°CWB	PERd	%	139.2					
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	5.40						
		B/1°CWB	Pdh	kW	3.6					
			PERd	%	216.0					

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Technical specifications				ELVZ12S18E6V + ERRA08EW17	ELVZ12S23E6V + ERRA08EW17	ELVZ12S18E6V + ERRA10EW17	ELVZ12S23E6V + ERRA10EW17	ELVZ12S18E6V + ERRA12EW17	ELVZ12S23E6V + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB) B/16°CWB	Cdh (Degradation heating)				1.0		
			COPd				6.53		
			Pdh kW				5.3		
			PERd %				261.2		
		D Condition (12°CDB) B/11°CWB	Cdh (Degradation heating)				1.0		
			COPd				7.98		
			Pdh kW				6.6		
			PERd %		319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11		2.14		2.16
			Pdh kW		4.9		5.9		6.5
			PERd %		84.3		85.6		86.4
			TOL °C				-22		
			WTOL °C				35		
	Warm climate water outlet 35°C	G Condition (-15°CDB)	COPd		2.68		2.64		
			Pdh kW		6.0		7.0		
			PERd %		107.1		105.6		
		Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh kW		6.5		7.0		
			PERd %		118.1		105.6		
			Tbiv °C		-12		-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C) kW		4.1		3.1		2.6
			General Annual energy consumption kWh				1,993		
			ηs (Seasonal space heating efficiency) %				228		
			Prated at 2°C kW				8.6		
			Qhe Annual energy consumption (GCV) GJ				7		
		B Condition (2°CDB) B/7°CWB	Cdh (Degradation heating)				1.0		
			COPd				4.17		
			Pdh kW				6.8		
			PERd %				166.8		
		C Condition (7°CDB) B/16°CWB	Cdh (Degradation heating)				1.0		
			COPd				5.85		
			Pdh kW				5.5		
			PERd %				234.0		
		Tbiv (biva- lent tem- pera- ture)	COPd				4.89		
			Pdh kW				6.8		
			PERd %				195.6		
			Tbiv °C				5		

- (1) Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2) Condition: Ta DB/WB 7°C/6°C - IWC 35°C (DT = 5°C) |
(3) Cooling: EW 12°C; IW 7°C; ambient conditions: 35°CDB |
(4) Cooling: EW 23°C; IW 18°C; ambient conditions: 35°CDB |
(5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6) Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7) DB/WB 7°C/6°C - IWC 35°C (dT=5°C) with pump at full speed

Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17
Energy Efficiency Range				Space Heating A+++ ~ D, Water Heating A+ ~ F					
Heating capacity	Min.	kW					3.45 (1)		
	Nom.	kW					6.17 (2)		
	Max.	kW		7.95 (1)		9.25 (1)		9.97 (1)	

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Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17
Power input	Heating	Min.	kW	0.70 (5)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (5)		1.98 (5)		2.21 (5)	
	Domes- tic hot water from 10°C to 50°C	Nom.	kWh	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)	2.54 (6)	3.09 (6)
Heat up time from 10°C to 50°C			hr	1h 51m	2h 10min	1h 51m	2h 10min	1h 51m	2h 10min
COP				5.10 (2)					
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKl					
Pump Additional Zone	Nomi- nal ESP unit	Heating	kPa	61.4 (7)					
Pump Main Zone	Nomi- nal ESP unit	Heating	kPa	59.5 (7)					
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3					
General	Sup- plier/ Manu- facturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark		Daikin Europe N.V.					
	Product de- scrip- tion	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 (according to EN14825)	dB(A)	dBA	44.0					
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA	56.0					
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Air to water unit	Rated airflow (outdoor)		3,542					
		Other	Capacity control		Inverter				
	Pck (Crankcase heater mode)		0.000						
	Poff (Off mode)		0.027						
	Psb (Standby mode)		0.027						
	Pto (Thermostat off)		0.024						
Domestic hot water heating	General	Declared load profile		L					
Space heating general	Inte- grated supple- men- tary heater	Psup	kW	9.0					
		Type of energy input		Electrical					

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Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17			
Domestic hot water heating 	Average	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787			
		COPdhw		2.80	3.05	2.80	3.05	2.80	3.05			
	climate	Heat up time		1h 57min	2h 14min	1h 57min	2h 14min	1h 57min	2h 14min			
		ηwh (water heating efficiency)	%	120	130	120	130	120	130			
		Qelec (Daily electricity consumption)	kWh	4.160	3.830	4.160	3.830	4.160	3.830			
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0			
		Stand-by power input	W	50.7	43.9	50.7	43.9	50.7	43.9			
		Water heating energy efficiency class		A+								
	Cold climate	AEC (Annual electricity consumption)	kWh	937	866	937	866	937	866			
		COPdhw		2.55	2.77	2.55	2.77	2.55	2.77			
		Heat up time		1h 55min	2h 02min	1h 55min	2h 02min	1h 55min	2h 02min			
		ηwh (water heating efficiency)	%	109	118	109	118	109	118			
		Qelec (Daily electricity consumption)	kWh	4.570	4.200	4.570	4.200	4.570	4.200			
		Reference hot water temperature	°C	53.0	52.0	53.0	52.0	53.0	52.0			
Warm climate	Stand-by power input	W	54.3	46.7	54.3	46.7	54.3	46.7				
	AEC (Annual electricity consumption)	kWh	699	648	699	648	699	648				
	COPdhw		3.40	3.68	3.40	3.68	3.40	3.68				
	Heat up time		1h 54min	2h 06min	1h 54min	2h 06min	1h 54min	2h 06min				
	ηwh (water heating efficiency)	%	147	158	147	158	147	158				
	Qelec (Daily electricity consumption)	kWh	3.430	3.160	3.430	3.160	3.430	3.160				
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,541		7,522		7,309			
			ηs (Seasonal space heating efficiency)	%			134				138	
			Prated at -10°C	kW					12.5			
			Qhe Annual energy consumption (GCV)	Gj			27				26	
			SCOP		3.42				3.43			
			Seasonal space heating eff. class						A++			
		A Condition (-7°CDB)	Cdh (Degradation heating)						1.0			
			COPd						2.34			
		B (-8°CWB)	Pdh	kW					7.6			
			PERd	%					93.6			
		B Condition (2°CDB)	Cdh (Degradation heating)						1.0			
			COPd						3.50			
		B (1°CWB)	Pdh	kW					6.8			
			PERd	%					140.0			
C Condition (7°CDB)	Cdh (Degradation heating)						1.0					

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Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/16°CWB)	COPd				5.07		
			Pdh kW				4.5		
		D Condition (12°CDB/11°CWB)	PERd %				202.8		
			Cdh (Degradation heating)				1.0		
			COPd				6.23		
			Pdh kW				5.2		
			PERd %				249.2		
		Tol (temperature operating limit)	COPd	2.04			2.06		
			Pdh kW	6.9			8.2		
			PERd %	81.6			82.4		
			TOL °C				-10		
			WTOL °C				55		
	Cold climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW	5.6			4.3		
			Tbiv (bivalent temperature) COPd		2.90			2.48	
			Pdh kW		8.5			10.0	
			PERd %		116.0			99.2	
			Tbiv °C		-2			-5	
			General Annual energy consumption kWh	7,088		6,950		6,921	
			ηs (Seasonal space heating efficiency) %	122			125		
			Prated at -22°C kW			9.0			
			Qhe Annual energy consumption (GCV) GJ	26			25		
		A Condition (-7°CDB/8°CWB)	Cdh (Degradation heating)				1.0		
			COPd				2.61		
			Pdh kW				5.2		
			PERd %	104.2			104.4		
		B Condition (2°CDB/7°CWB)	Cdh (Degradation heating)				1.0		
			COPd				3.90		
			Pdh kW				3.3		
			PERd %				156.0		
		C Condition (7°CDB/16°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.96		
			Pdh kW				3.4		
			PERd %				198.3		
		D Condition (12°CDB/11°CWB)	COPd				6.56		
			Pdh kW				4.2		
			PERd %				262.5		
			Tol (temperature operating limit) COPd	1.49		1.56		1.62	

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Technical specifications					ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17
Space heating Cold climate water outlet 55°C	Tol (tem- per- ature WTOL operating limit) G Condition (-15°CDB/-) Tbiv (biva- lent tem- pera- ture) Rated heat output supplementary capacity	Pdh PERd TOL WTOL COPd Pdh PERd COPd Pdh PERd Tbiv Psup (at Tdesign -22°C)	kW % °C °C kW % % kW % % °C kW		4.9		6.1		7.2	
					59.6		62.3		64.7	
							-22			
							55			
						2.00		2.03		
						6.0		7.2		
						80.0		81.2		
						2.25		2.03		
						6.6		7.2		
						90.0		81.2		
						-12		-15		
						4.1	2.9		1.8	
							2,972			
							170			
							9.6			
							11			
							1.0			
							2.66			
							8.0			
							106.5			
							1.0			
							3.79			
							6.7			
							151.5			
							1.0			
							5.87			
							3.6			
							234.9			
							3.13			
							8.4			
							125.4			
							4			
Average climate water outlet 35°C	General	Annual energy consumption ηs (Seasonal space heating efficiency) Prated at -10°C Qhe Annual energy consumption (GCV)	kWh % kW Gj		3,561		3,539			
					190		191			
							8.3			
							13			
						4.81		4.84		

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Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17	
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++						
		A Condition	COPd	3.20						
		(-7°C)-	Pdh	kW	7.5					
		B/-8°CWB	PERd	%	128.0					
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	4.93						
		B/1°CWB	Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition	Cdh (Degradation heating)	1.0						
		(7°C)-	COPd	6.37						
		B/6°CWB	Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition	Cdh (Degradation heating)	1.0						
		(12°C)-	COPd	8.13						
		B/11°CWB	Pdh	kW	6.6					
			PERd	%	325.2					
		Tol	COPd	2.90		2.86				
		(tem-	Pdh	kW	6.9		8.1			
		per-	PERd	%	116.0		114.4			
		ature	TOL	°C	-10					
		oper-	WTOL	°C	35					
		ating								
		limit)								
		Tbiv	COPd	3.20		2.86				
		(biva-	Pdh	kW	7.5		8.1			
		lent	PERd	%	128.0		114.4			
		tem-	Tbiv	°C	-7		-10			
pera-										
ture)										
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	1.4		0.0					
Cold climate water outlet 35°C	General	Annual energy consumption	kWh	5,394		5,239		5,224		
		ηs (Seasonal space heating efficiency)	%	162		166		167		
		Prated at -22°C	kW	9						
		Qhe Annual energy consumption (GCV)	Gj	19.4		18.9		18.8		
		A Condition	COPd	3.48						
		(-7°C)-	Pdh	kW	5.4					
		B/-8°CWB	PERd	%	139.2					
		B Condition	Cdh (Degradation heating)	1.0						
		(2°C)-	COPd	5.40						
		B/1°CWB	Pdh	kW	3.6					
			PERd	%	216.0					

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Technical specifications				ELVZ12S18E9W + ERRA08EW17	ELVZ12S23E9W + ERRA08EW17	ELVZ12S18E9W + ERRA10EW17	ELVZ12S23E9W + ERRA10EW17	ELVZ12S18E9W + ERRA12EW17	ELVZ12S23E9W + ERRA12EW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°C DB/ B/16°C WB)	Cdh (Degradation heating)				1.0		
			COPd				6.53		
			Pdh kW				5.3		
			PERd %				261.2		
		D Condition (12°C DB/ B/11°C WB)	Cdh (Degradation heating)				1.0		
			COPd				7.98		
			Pdh kW				6.6		
			PERd %		319.0		319.2		
		Tol (tem- per- ature oper- ating limit)	COPd		2.11		2.14		2.16
			Pdh kW		4.9		5.9		6.5
			PERd %		84.3		85.6		86.4
			TOL °C				-22		
			WTOL °C				35		
	Warm climate water outlet 35°C	G Condition (-15°C DB/A)	COPd		2.68		2.64		
			Pdh kW		6.0		7.0		
			PERd %		107.1		105.6		
		Tbiv (biva- lent tem- pera- ture)	COPd		2.95		2.64		
			Pdh kW		6.5		7.0		
			PERd %		118.1		105.6		
			Tbiv °C		-12		-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C) kW		4.1		3.1		2.6
			General Annual energy consumption kWh				1,993		
			ηs (Seasonal space heating efficiency) %				228		
			Prated at 2°C kW				8.6		
			Qhe Annual energy consumption (GCV) GJ				7		
		B Condition (2°C DB/ B/1°C WB)	Cdh (Degradation heating)				1.0		
			COPd				4.17		
			Pdh kW				6.8		
			PERd %				166.8		
		C Condition (7°C DB/ B/6°C WB)	Cdh (Degradation heating)				1.0		
			COPd				5.85		
			Pdh kW				5.5		
			PERd %				234.0		
		Tbiv (biva- lent tem- pera- ture)	COPd				4.89		
			Pdh kW				6.8		
			PERd %				195.6		
			Tbiv °C				5		

- (1) Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
(2) Condition: Ta DB/WB 7°C/6°C - LWC 35°C (dT = 5°C) |
(3) Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
(4) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
(5) Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(6) Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(7) DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed

Technical Specifications				ERRA08EW17	ERRA10EW17	ERRA12EW17
Casing	Colour				Silver / Black	
	Material				Polyester painted galvanised steel plate	
Dimensions	Unit	Height	mm		1,003	
		Width	mm		1,270	
		Depth	mm		533	
	Packed unit	Height	mm		1,340	
		Width	mm		1,440	
		Depth	mm		690	
Weight	Unit		kg		107	
	Packed unit		kg		132	
Packing	Material				Carton / Wood (pallet) / PE (Straps) / Metal	
	Weight		kg		46	

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Technical Specifications					ERRA08EW17	ERRA10EW17	ERRA12EW17
Heat exchanger	Length	mm			1,200		
	Rows	Quantity			2		
	Fin pitch	mm			2.00		
	Passes	Quantity			10		
	Face area	m²			1.19		
	Stages	Quantity			44		
	Tube type				ø7 Hi-XSL		
	Fin	Type			WF fin		
	Treatment			Anti-corrosion treatment (PE)			
Fan	Type				Propeller fan		
	Quantity				1		
	Air flow rate	Heating	Nom.	m³/min	59.0		
			High	m³/min	89.9		
		Cooling	Nom.	m³/min	80		
			High	m³/min	80.1		
	Discharge direction				Horizontal		
Fan motor	Quantity				1		
	Model				Brushless DC motor		
	Output	W			234		
	Drive				Direct drive		
	Speed	Steps			6		
		Heating	Nom.	rpm	390		
		Cooling	Nom.	rpm	520		
Compressor	Quantity				1		
Compressor	Model				2Y260BPDY1P#C		
	Type				Hermetically sealed swing compressor		
	Starting method				Inverter driven		
PED	Category				Category II		
Operation range	Heating	Min.	°CDB		-25.0		
		Max.	°CDB		25		
	Cooling	Min.	°CDB		10		
		Max.	°CDB		43		
	Domestic hot water	Max.	°CDB		35		
		Min.	°CDB		-25		
PED	Most critical part	Name			Accumulator		
		Ps*V	Bar*I		109		
Sound power level	Heating	Nom.	dBA		56.0 (1)		
	Cooling	Nom.	dBA		61.2 (2)	61.4 (2)	60.9 (2)
Sound pressure level	Heating	Nom.	dBA		41.1 (3)		
	Cooling	Nom.	dBA		47.1 (4)		47.2 (4)
	Night quiet mode	Heating	dBA		43.2 (3)		
		Cooling	dBA		44.0 (4)		
Refrigerant	Type				R-32		
	GWP				675.0		
	Charge	kg			3.25		
	Control				Expansion valve		
	Circuits	Quantity			1		
Refrigerant oil	Type				FW68DE		
	Charged volume	l			1.1		
Piping connections	Liquid	OD	mm		6.35		
	Gas	OD	mm		15.9		
	Piping length	OU - IU	Min.	m	3		
			Max.	m	50		
	High pres- sure side	Design pressure	bar		46		
	Additional refrigerant charge			kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	m	30.0		
Defrost method					Reversed cycle		
Defrost control					Sensor for outdoor heat exchanger temperature		
Capacity control	Method				Inverter controlled		
Safety devices	Item	01			High pressure switch		
		02			High pressure switch		
Safety devices	Item	03			Low pressure switch		
		04			Thermal protector for compressor		
		05			Fuse		

2 Specifications

2 - 1 Specifications

Electrical Specifications				ERRA08EW17	ERRA10EW17	ERRA12EW17
Power supply	Name				W1	
	Phase				3~	
	Frequency	Hz			50	
	Voltage	V			400	
	Voltage range	Min.	Nom.		-10	
		cos phi	Max.		0.72	
					0.93	
Current		Max.	%		10	
	kVa	kVA			Equipment complying with EN / IEC 61000-3-12	
	Recommended fuses	A			16	
	Inverter modulation	Min.	%	44	37	35
Wiring connections	For power supply	Remark	See installation manual outdoor unit			
	For connection with indoor	Remark	See installation manual indoor unit			

(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) |

(3)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(4)The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value depending on the distance and acoustic environment. Refer to sound spectrum drawing for more information. Condition: Ta 35°C - LWE 7°C (DT =

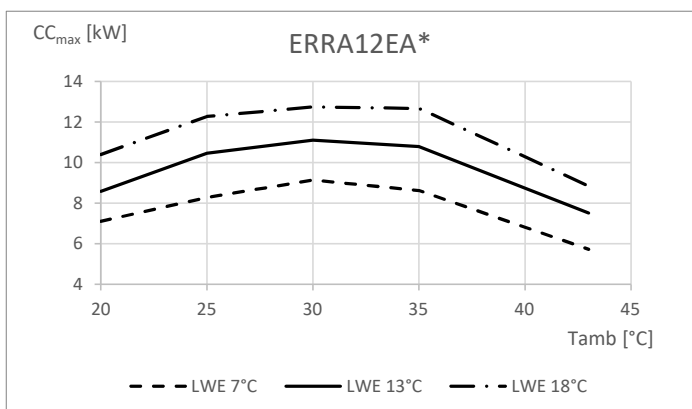
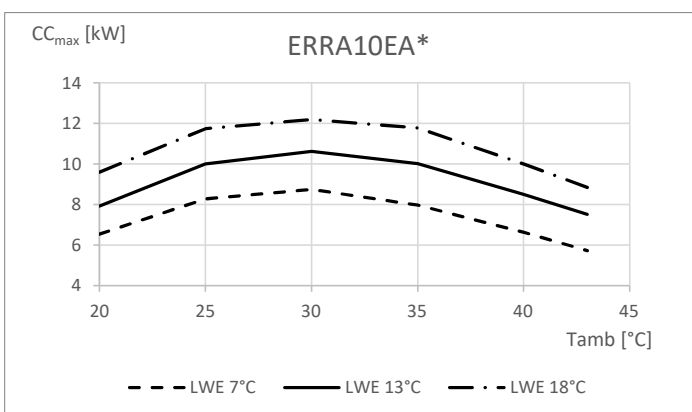
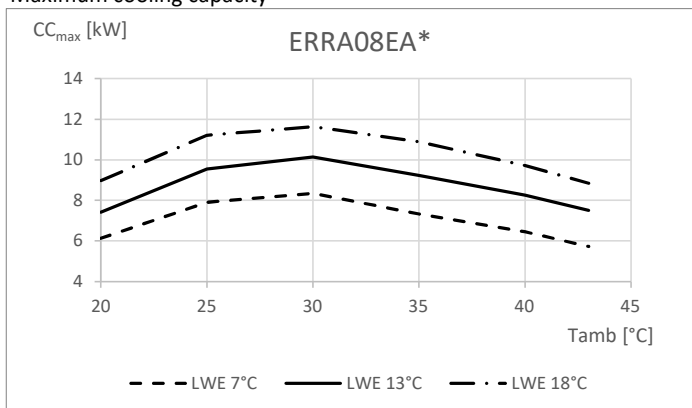
3 Capacity tables

3 - 1 Cooling Capacity Tables

ERRA-EV37

ERRA-EW17

Maximum cooling capacity



Symbols

CC_{max}	Cooling capacity at maximum operating frequency, measured according to EN 14511.
LWE	Leaving water evaporator temperature [°C]
Tamb	Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.

Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.

The capacity and the power input are at maximum operation.

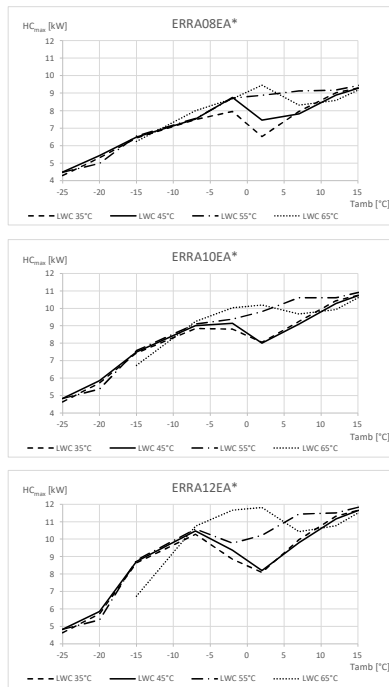
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3 Capacity tables

3 - 2 Heating Capacity Tables

ERRA-EV37
ERRA-EW17

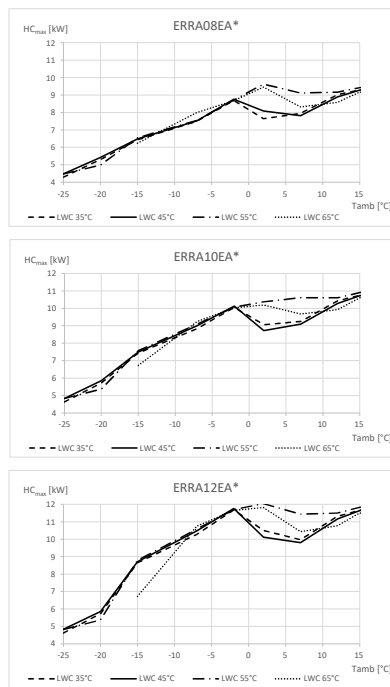
Maximum heating capacity - integrated value



Symbols

HC_{max} Heating capacity for maximum load, measured according to EN 14511
LWC Leaving water condenser temperature [°C]
Tamb Ambient temperature [°C DB]

Maximum heating capacity - peak values



Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3^{\circ}\text{C}$ – 8°C .

Notes

The capacity and power input is valid for 'V3' models at -230-V and for 'W1' models at -400-V.
The capacity and the power input are at maximum operation.

3D146962A

3 Capacity tables

3 - 3 Certification Programs

ERRA-EV37

ERRA-EW17

3

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°C]	LWC [°C]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	Used for:
7/6	30	35	6,17	4,92	6,17	4,92	6,17	4,92	6,17	5,10	6,17	5,10	6,17	5,10	Keymark, EHPA
2/1	(30)	35	5,74	4,08	5,74	4,08	5,74	4,08	5,74	4,23	5,74	4,23	5,74	4,23	EHPA
-7/-8	(30)	35	7,49	3,04	7,49	3,04	7,49	3,04	7,49	3,14	7,49	3,14	7,49	3,14	General
7/6	40	45	7,73	3,57	7,73	3,57	7,73	3,57	7,73	3,70	7,73	3,70	7,73	3,70	General
-2/-3	(40)	45	8,58	2,83	8,66	2,59	9,36	2,54	8,58	2,91	8,66	2,69	9,36	2,64	MCS
7/6	47	55	7,72	2,94	7,72	2,94	7,72	2,94	7,72	3,05	7,72	3,05	7,72	3,05	Keymark, EHPA
-7/-8	47	55	7,55	2,05	9,02	2,11	9,02	2,11	7,55	2,13	9,02	2,19	9,02	2,19	GET

Rated data for certification programmes - cooling mode

Tamb [°C]	EWE [°C]	LWE [°C]	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	Used for:
35	23	18	6,47	5,56	6,47	5,56	6,47	5,56	6,47	5,75	6,47	5,75	6,47	5,75	General
35	12	7	6,81	3,17	7,97	3,00	8,62	2,91	6,81	3,28	7,97	3,10	8,62	3,01	DAPT General

Seasonal data - cooling

LWE 7°C

Low temperature

Application

	ERRA08EAV3(7)	ERRA10EAV3(7)	ERRA12EAV3(7)	ERRA08EAW1(7)	ERRA10EAW1(7)	ERRA12EAW1(7)	Used for:
Pdes [kW]	6,5	7,5	8,5	6,5	7,5	8,5	
SEER [-]	5,38	5,34	5,31	5,42	5,41	5,41	
ηs,c [%]	212	211	209	214	214	213	
QCE [kWh/annum]	725	843	961	719	831	943	

Rated data for certification programmes - domestic hot water performance

Indoor unit	ELV*12S18EJ*	ELV*12S23EJ*	ELS(X/H)(B/-)12P30EF	ELS(X/H)(B/-)12P50EF	Used for:
Outdoor unit	ERRA*EAV3(7)	ERRA*EAW1(7)	ERRA*EAV3(7)	ERRA*EAW1(7)	
Application	Average climate	Average climate	Average climate	Average climate	
Domestic hot water tank volume [l]	180	230	294	477	
Tapping pattern	L	L	L	XL	
Heat-up time (hh:mm:ss)	01:57:00	02:14:00	02:29:00	03:28:00	
θ _{wh} [°C]	52,5	52,5	46,1	44,7	Keymark
P _{sc} [W]	51,7	50,7	44,8	43,9	
V _{wh} [l]	240	298	172,6	260,0	
η _{wh} [%]	116,7	126,3	126,4	130	
COP _{DHW} [l]	2,72	2,8	2,96	3,05	
			2,75	2,83	

Symbols

HC Heating capacity measured according to EN 14511

CC Cooling capacity, measured according to -EN 14511.

COP/EER Coefficient of Performance/Energy efficiency ratio according to EN 14511.

EWC Entering water condenser temperature [°C]

LWC Leaving water condenser temperature [°C]

EWE Entering water evaporator temperature [°C]

LWE

Tamb Leaving water evaporator temperature [°C]

θ_{wh} Ambient temperature [°C DB/WB]

P_{sc} Reference Domestic hot water temperature [°C]

V_{wh} Standby power input

η_{wh} Equivalent domestic hot water volume [l]

COP_{DHW} Efficiency [%] Domestic hot water heating mode

Domestic hot water COP

According to EN16147.

According to EN16147.

According to EN16147.

According to EN16147.

Rated data for certification programmes - heating mode

Measured according to -UNI/TS 11300-

Condition	Tamb [°C]	LWC [°C]	PLR [%]	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	-7/-8	34	100	7,49	3,10	8,73	3,02	10,22	2,93	7,49	3,20	8,73	3,12	10,22	3,03
B	2/1	30	100	6,68	3,87	7,83	3,86	8,41	3,86	6,68	4,01	7,83	3,99	8,41	3,98
C	7/6	27	100	8,44	5,60	9,84	5,42	10,61	5,32	8,44	5,78	9,84	5,59	10,61	5,48
D	12/11	24	100	9,27	7,52	10,70	7,35	11,59	7,24	9,27	7,77	10,70	7,58	11,59	7,46
A	-7/-8	52	100	7,54	2,20	8,91	2,21	10,55	2,22	7,54	2,28	8,91	2,29	10,55	2,30
B	2/1	42	100	7,81	3,47	8,04	3,21	8,16	3,08	7,81	3,58	8,04	3,31	8,16	3,18
C	7/6	36	100	8,16	4,43	9,54	4,42	10,31	4,41	8,16	4,57	9,54	4,56	10,31	4,55
D	12/11	30	100	9,04	6,16	10,49	6,21	11,39	6,24	9,04	6,35	10,49	6,40	11,39	6,43

Rated data for certification programmes - cooling mode

Measured according to -UNI/TS 11300-

Condition	Tamb [°C]	LWE [°C]	PLR [%]	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER
A	35	18	100	10,89	4,35	11,77	4,11	12,66	3,87	10,89	4,51	11,77	4,26	12,66	4,01
B	30	18	75	7,96	6,05	8,73	5,98	9,51	5,90	7,96	6,26	8,73	6,19	9,51	6,11
C	25	18	50	5,51	8,83	5,90	8,36	6,28	7,88	5,51	9,04	5,90	8,60	6,28	8,17
D	20	18	25	3,47	12,42	3,47	12,42	3,47	12,42	3,47	12,29	3,47	12,29	3,47	12,29
A	35	7	100	7,33	3,09	7,97	3,00	8,62	2,91	7,33	3,20	7,97	3,10	8,62	3,01
B	30	7	75	5,34	4,06	5,86	4,01	6,38	3,96	5,34	4,20	5,86	4,15	6,38	4,10
C	25	7	50	3,66	5,21	3,95	5,22	4,24	5,23	3,66	5,36	3,95	5,39	4,24	5,42
D	20	7	25	2,19	6,20	2,19	6,20	2,19	6,20	2,19	6,17	2,19	6,17	2,19	6,17

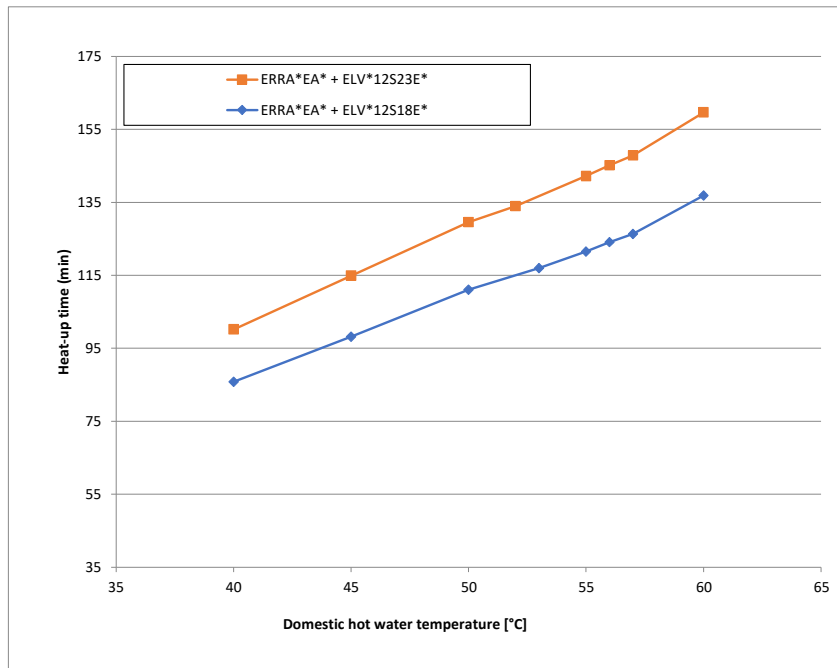
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3 Capacity tables

3 - 4 Domestic Hot Water performance

ERRA-EV37
ERRA-EW17

Heat-up times



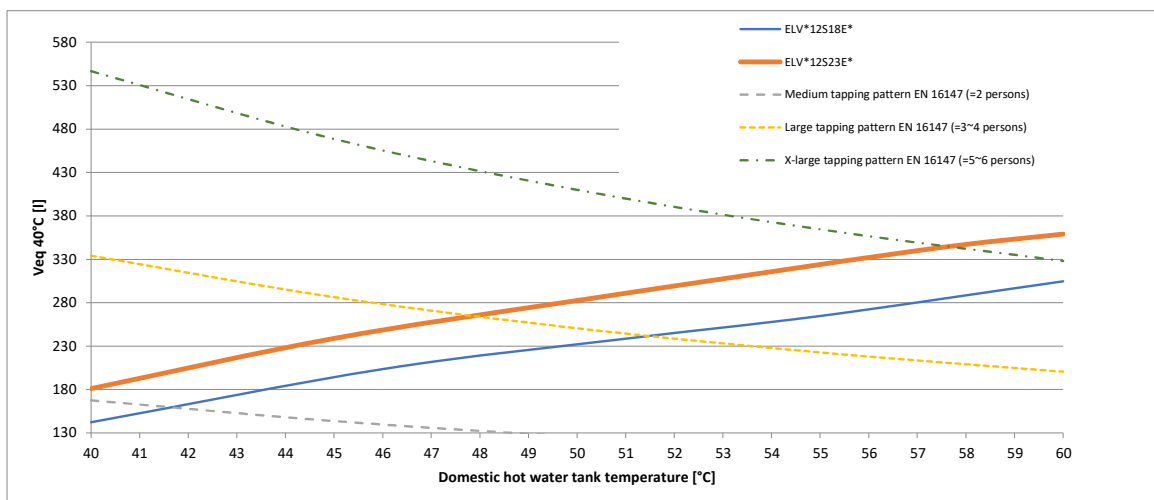
Notes

1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

Model name	Heat-up time domestic hot water tank until 45°C
ERRA(08/10/12)EA* +	·98· min.
ERRA(08/10/12)EA* +	·115· min.

Selection guide for the domestic hot water tank volume

Veq 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.



If a higher daily Veq 40°C is required, then additional heat-up cycles are required within 24 hours. See the operation manual for more information.

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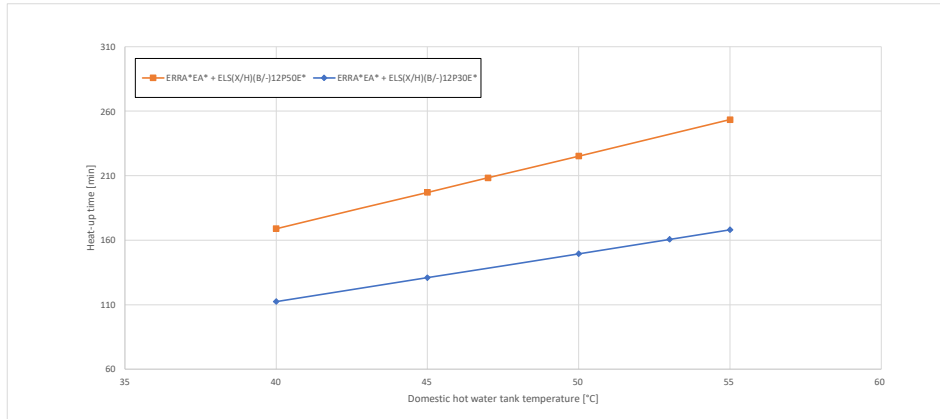
3 Capacity tables

3 - 4 Domestic Hot Water performance

ERRA-EV37
ERRA-EW17

3

Heat-up times



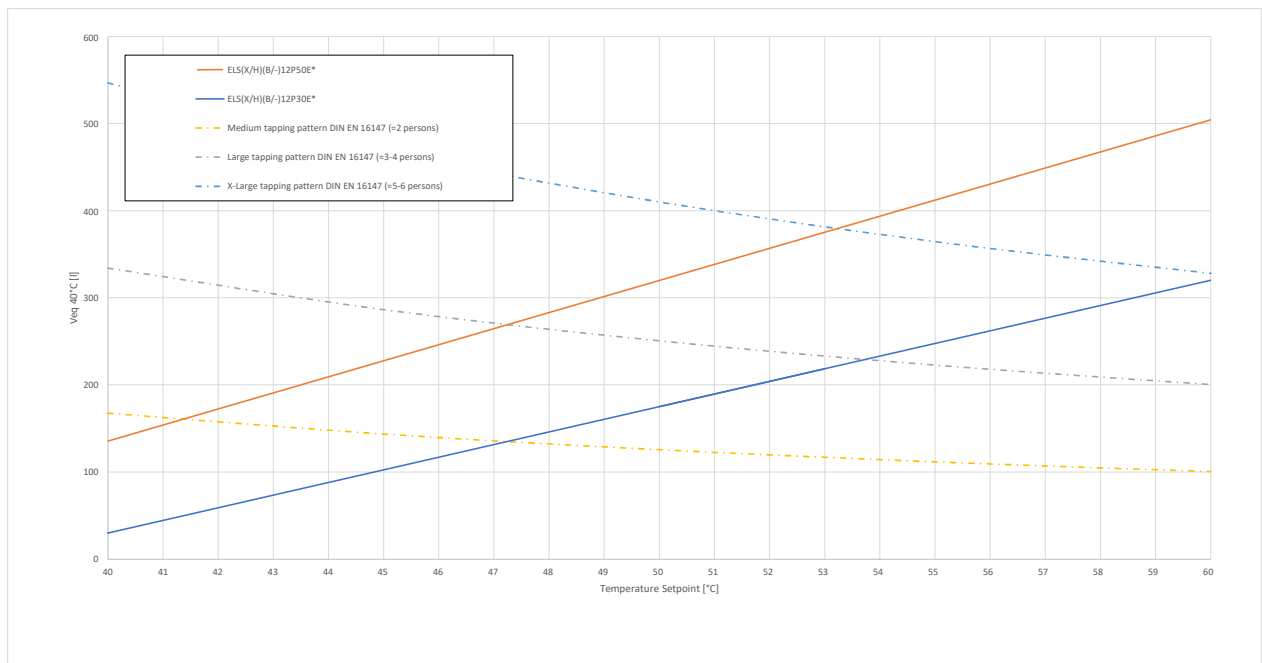
Notes

- Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

	Heat-up time domestic hot water tank until 45°C
ERRA*EA* + ELS(X/H)(B/-)12P30E*	-131- min.
ERRA*EA* + ELS(X/H)(B/-)12P50E*	-197- min.

Selection guide for the domestic hot water tank volume

Ve_q 40°C = the amount of water with a temperature of 40°C that can be tapped when the domestic hot water tank is heated to a certain temperature, and the temperature of the cold inlet water is 10°C.



3D142814B

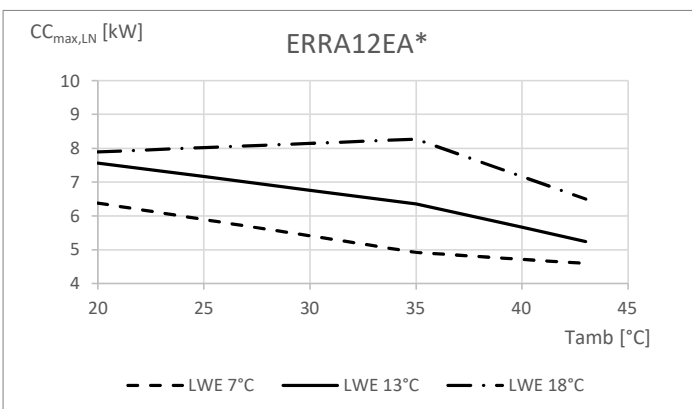
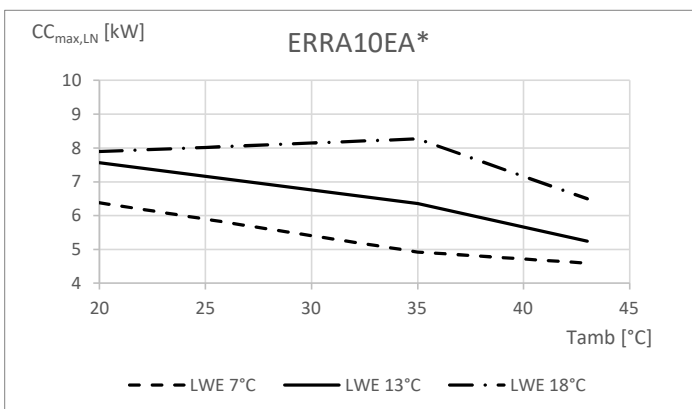
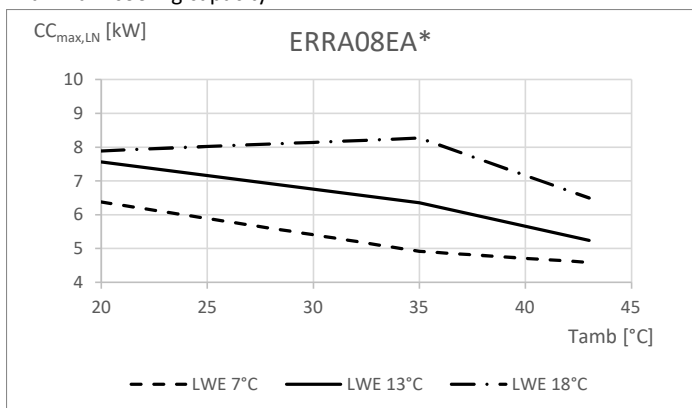
4 Capacity graphs

4 - 1 Cooling Capacity Graphs - quiet mode

ERRA-EV37

ERRA-EW17

Maximum cooling capacity



Symbols

$CC_{max,LN}$	Cooling capacity at maximum operating frequency, measured according to EN 14511.
LWE	Leaving water evaporator temperature [°C]
Tamb	Ambient temperature [°C DB]

Conditions

Cooling capacity

Capacity according to standard EN 14511 and valid for chilled water range $\Delta T = 3 \sim 8^\circ\text{C}$.

Notes

The capacity and power input is valid for ·V3· models at ·230-V and for ·W1· models at ·400-V.

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

Low noise level ·1·

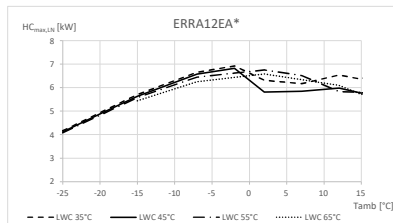
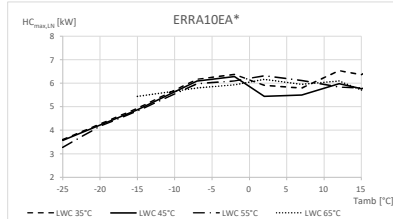
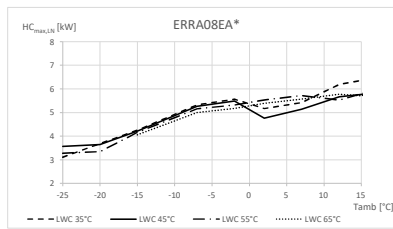
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4 Capacity graphs

4 - 2 Heating Capacity Graphs - quiet mode

ERRA-EV37
ERRA-EW17

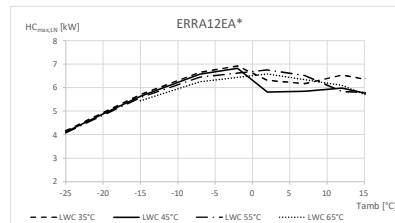
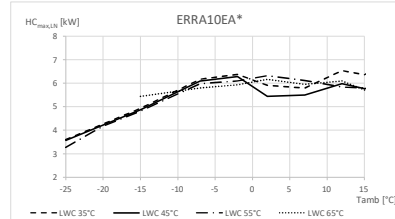
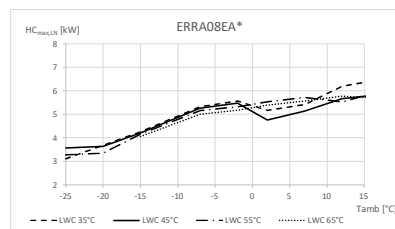
Maximum heating capacity - integrated value



Symbols

HC_{max} Heating capacity for maximum load, measured according to EN 14511
LWC Leaving water condensor temperature [°C]
Tamb Ambient temperature [°C DB]

Maximum heating capacity - peak values



Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3^{\circ}\text{C}$.

Notes

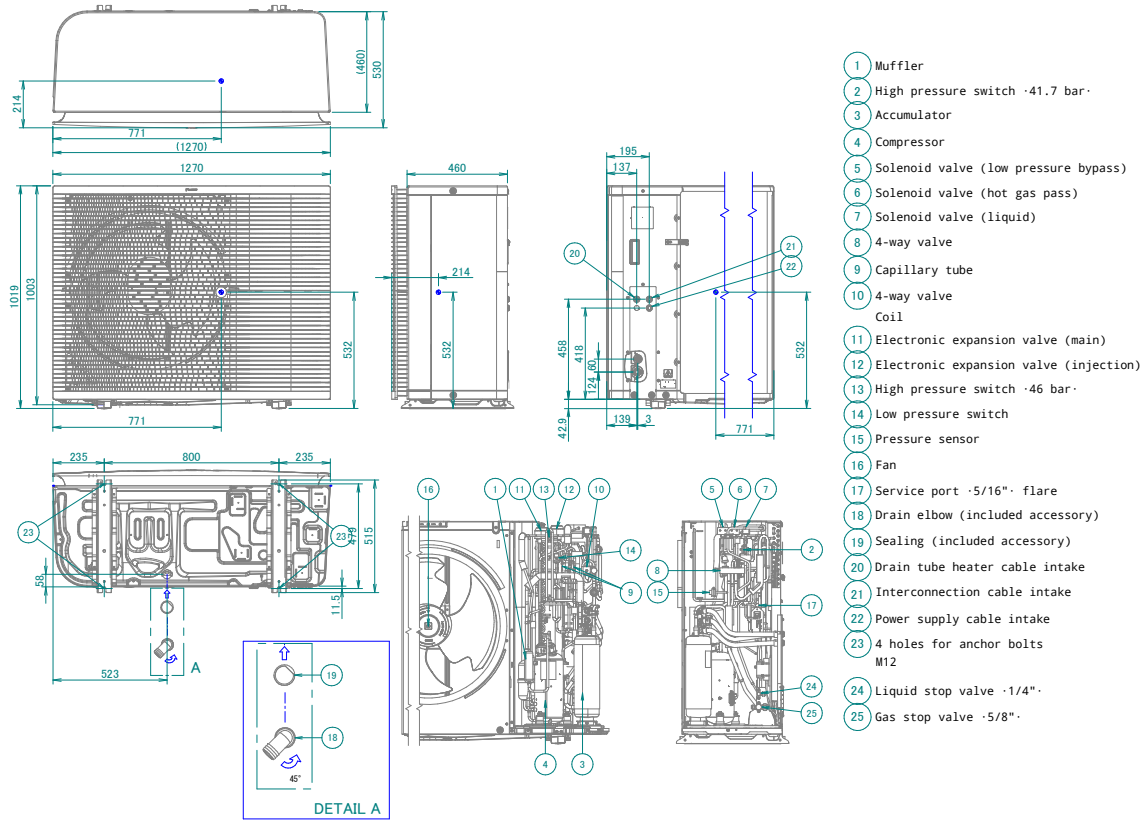
The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)
Low noise level -1-

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5 Dimensional drawings

5 - 1 Dimensional Drawings

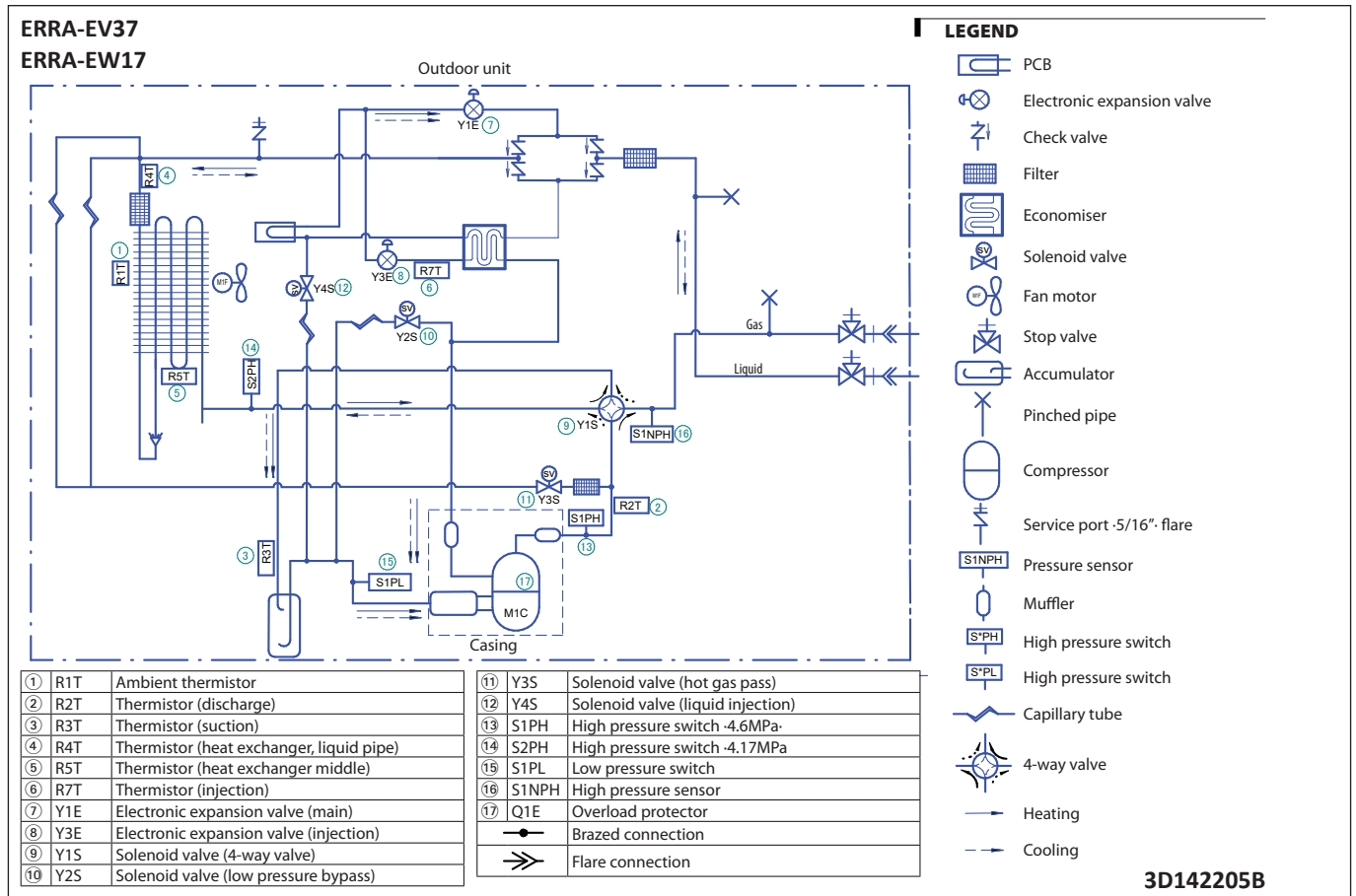
ERRA-EV37 / ERRA-EW17



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6 Piping diagrams

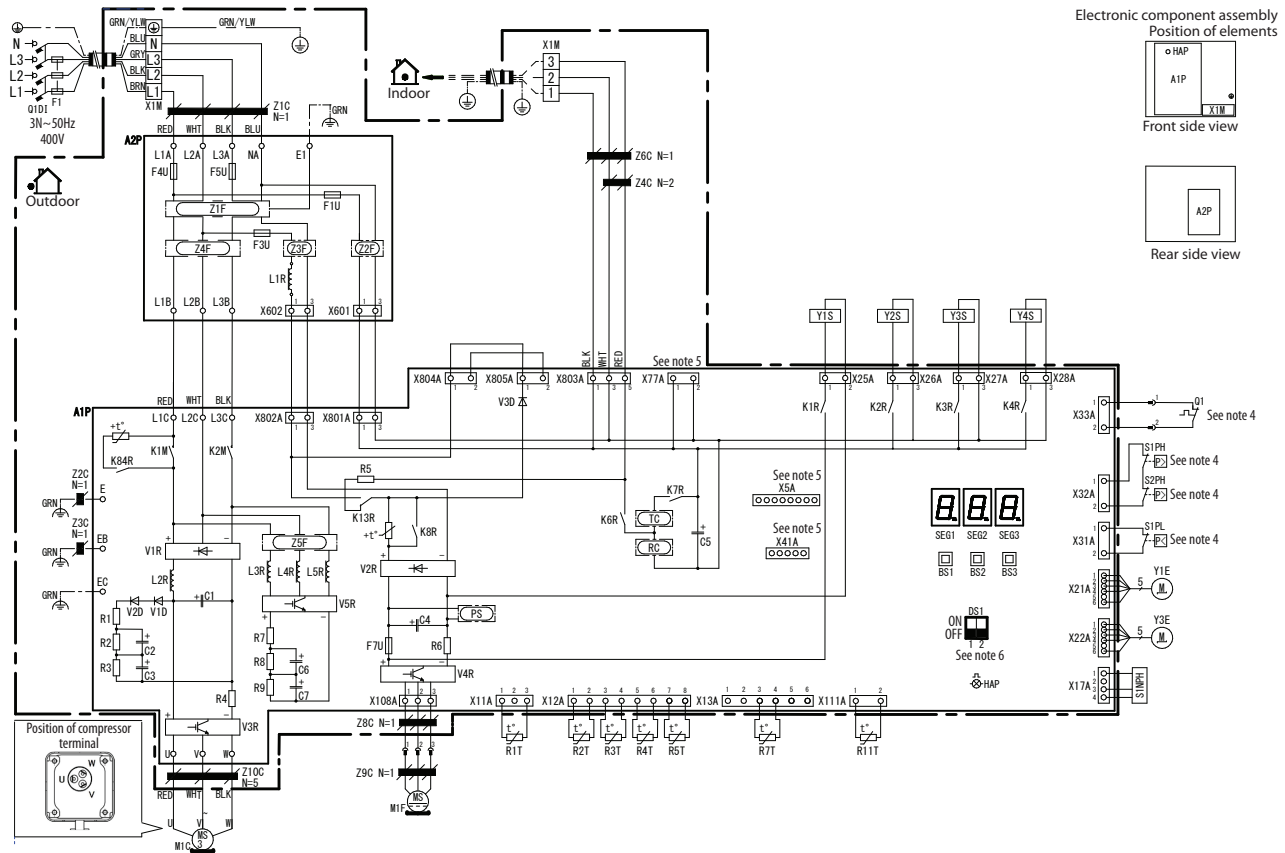
6 - 1 Piping Diagrams



7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

ERRA-EW17



A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
B51~B53 (A1P)	Push-button switch
C1 ~ C7 (A1P)	Capacitor
DS1 (A1P)	DIP switch
F1	Field fuse (supply supply)
F1U, F3U (A2P)	Fuse (T 6.3A / 250V)
F4U, F5U (A2P)	Fuse (30 / 500V)
F7U (A1P)	Fuse (T 5.0A / 250V)
HAP (A1P)	Light-emitting diode (service monitor is green)
K1R (A1P)	Magnetic relay (Y1S)
K2R (A1P)	Magnetic relay (Y2S)
K3R (A1P)	Magnetic relay (Y3S)
K4R (A1P)	Magnetic relay (Y4S)
K6R ~ K84R (A1P)	Magnetic relay
K1M ~ K2M (A1P)	Magnetic contactor
K13R~K15R (A1P, A2P)	Magnetic relay
L1R ~ L5R (A1P, A2P)	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA) (field supply)
Q1	Thermal overcurrent protector
R1 ~ R9 (A1P)	Resistor
R1T	Thermistor (ambient)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger liquid pipe)
R5T	Thermistor (heat exchanger middle)
R7T	Thermistor (injection)
R11T	Thermistor (fin)
RC (A2P)	Signal receiver circuit
S1NPH	High pressure sensor
S1PH~S2PH	High pressure switch
S1PL	Low pressure switch
SEG* (A1P)	7-segment display
TC (A1P)	Signal transmission circuit
V1D~V3D (A1P)	Diode
V1R ~ V2R (A1P)	Diode module
V3R ~ V5R (A1P)	IGBT power module
X1M	Terminal strip

Y1E	Electronic expansion valve (main - black)
Y3E	Electronic expansion valve (injection - blue)
Y1S	Solenoid valve (4-way valve)
Y2S	Solenoid valve (low pressure bypass)
Y3S	Solenoid valve (hot gas bypass)
Y4S	Solenoid valve (liquid injection)
Z1C~Z10C	Noise filter (ferrite core)
Z1F~Z5F (A1P, A2P)	Noise filter

NOTES

1. L : Live
N : Neutral
⊕ : Protective earth
⚡ : Noiseless earth
⏏ : Field wiring
⏏ : Option
□ : Terminal strip
○ : Terminal
⊞ : Connector
● : Connection
2. Colours: BLK: black, RED: red, BLU: bleu, WHT: white, GRN: green, YLW: yellow, PNK: pink, ORG: orange, GRY: grey, BRN: brown
3. This wiring diagram applies only to the outdoor unit.
4. When operating, do not short-circuit protection device Q1, S1PH, S2PH and S1PL.
5. Refer to the combination table and the option manual for how to connect the wiring to X5A, X77A, X41A.
6. The factory setting of DIP switch DS1.1 is OFF.

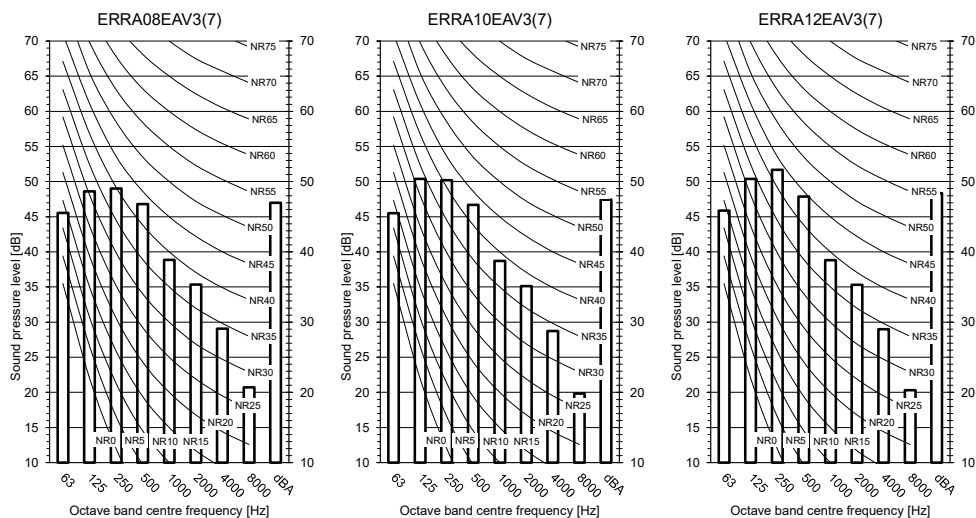
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8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

ERRA-EV37
ERRA-EW17

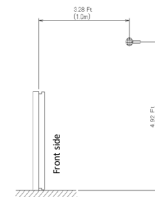
8



Notes

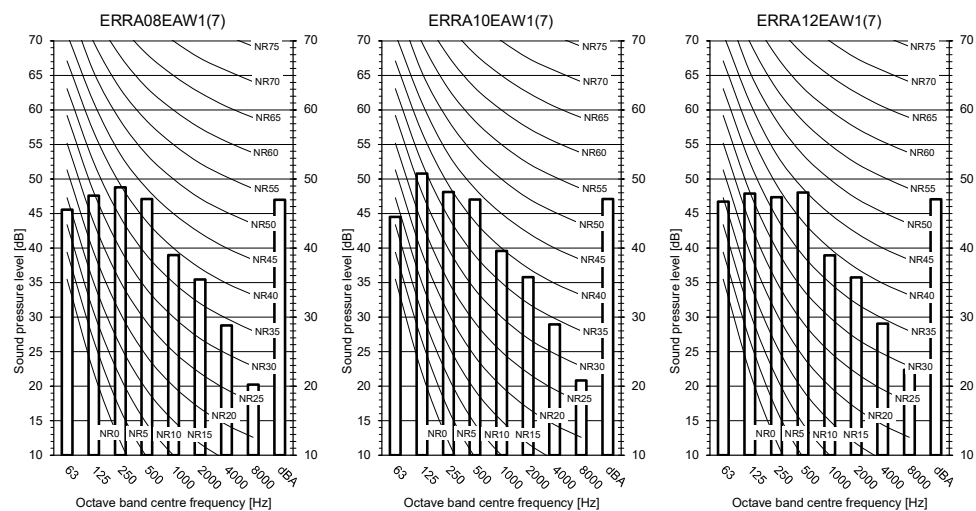
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Measuring location
(discharge side)



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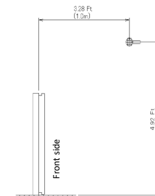
ERRA-EV37
ERRA-EW17



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Measuring location
(discharge side)

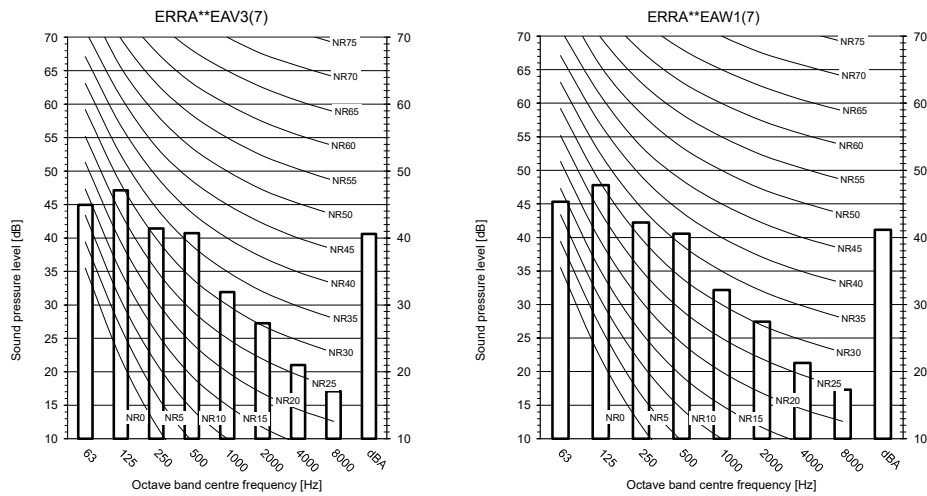


3D146968A

8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

ERRA-EV37
ERRA-EW17

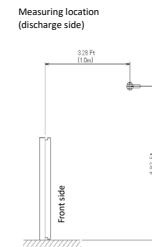


		Maximum sound day			Maximum sound night		
		Sound Power Level [dB(A)]			Sound Power Level [dB(A)]		
Maximum sound day	Maximum sound night	ERRA08EA*	ERRA10EA*	ERRA12EA*	ERRA08EA*	ERRA10EA*	ERRA12EA*
Default	Low noise level -1-	62	62	62	58.5	58.5	58.5
Low noise level -2-	Low noise level -3-	53	53	53	49.8	49.8	49.8

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Conditions: Ta 0dB/WB -7/6°C - LWC 35°C
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.



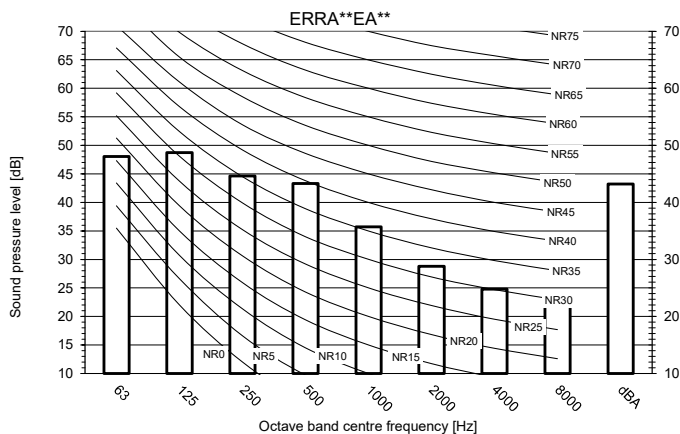
3D146966A

8 Sound data

8 - 3 Sound Pressure Spectrum Quiet Mode

ERRA-EV37

ERRA-EW17



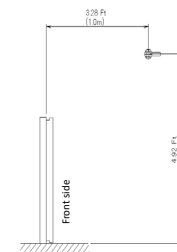
Maximum sound day	Maximum sound night	Maximum sound day			Maximum sound night		
		Sound Power Level [dBA]			Sound Power Level [dBA]		
Default	Low noise level -1-	ERRA08EA*	ERRA10EA*	ERRA12EA*	ERRA08EA*	ERRA10EA*	ERRA12EA*
Low noise level -2-	Low noise level -3-	62	62	62	58,5	58,5	58,5
		53	53	53	49,8	49,8	49,8

Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Conditions: Ta DB/WB -7/-6°C - LWC -55°C
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

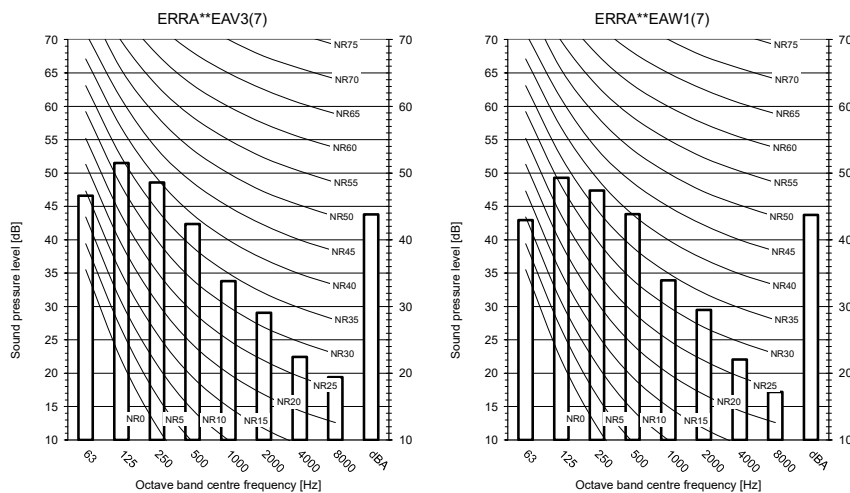
Measuring location
(discharge side)



3D146967

ERRA-EV37

ERRA-EW17



Measuring location
(discharge side)



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa
- If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

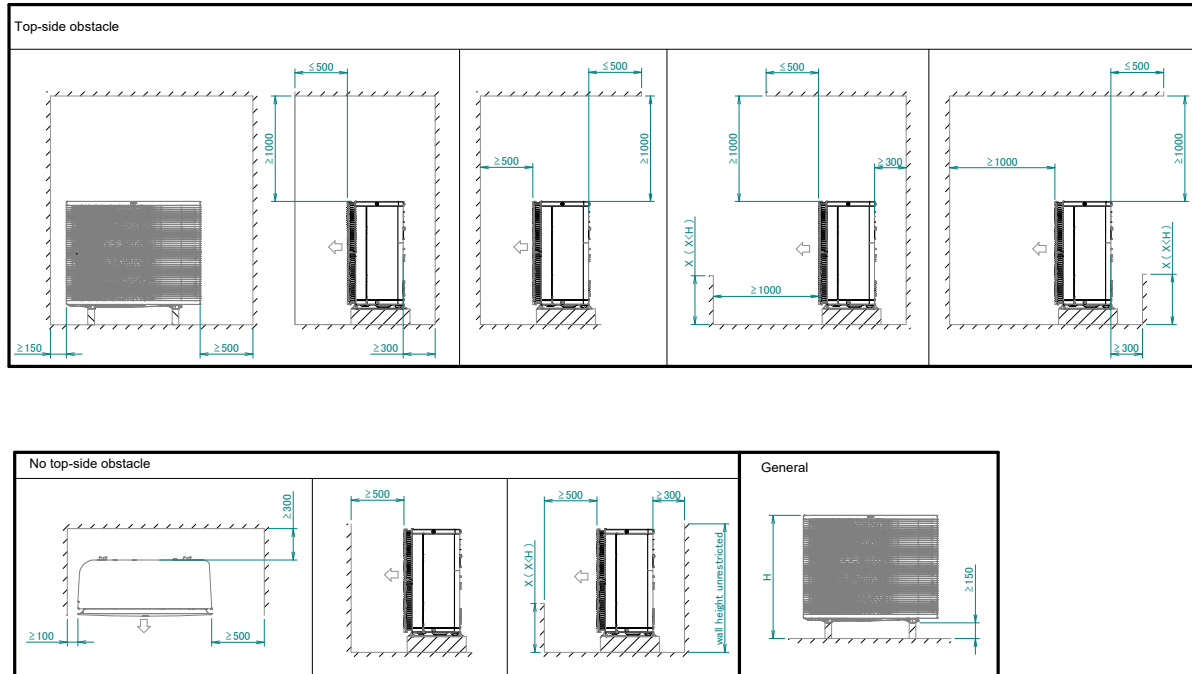
3D146969A

9 Installation

9 - 1 Installation Method

ERRA-EV37
ERRA-EW17

Minimum space for air passage



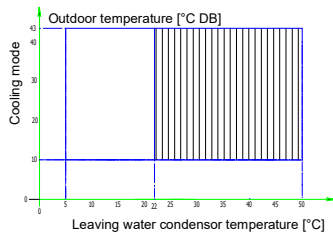
3D145275

10 Operation range

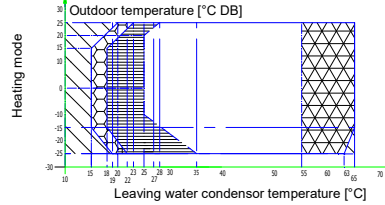
10 - 1 Operation Range

ERRA-EV37
ERRA-EW17

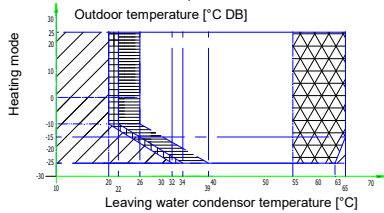
ELV* + ELB* + ELS*



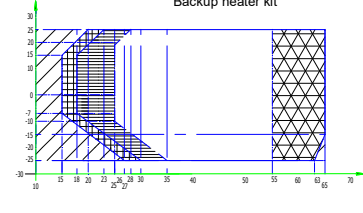
No backup heater
With tank preheating
See note *1.



ELB* Backup heater
Backup heater kit



ELV* + ELS* Backup heater
Backup heater kit



- Legend
- Backup heater only operation
 - No outdoor unit operation
 - Heat pump + backup heater operation
 - Pull-up area
 - Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request. See dashed lines
 - Outdoor unit operation if setpoint > 55°C and ΔT = -10°C (ΔT = outlet temperature – inlet temperature)
 - Pull-down area

- Auxiliary boiler only operation
- No outdoor unit operation
- Heat pump + auxiliary boiler operation
- Pull-up area

- Notes
1. Tank preheating. For details, see the installer reference guide.
 2. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

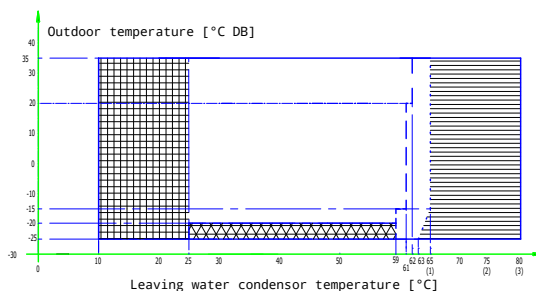
3D142809B

ERRA-EV37
ERRA-EW17

Domestic hot water heating mode

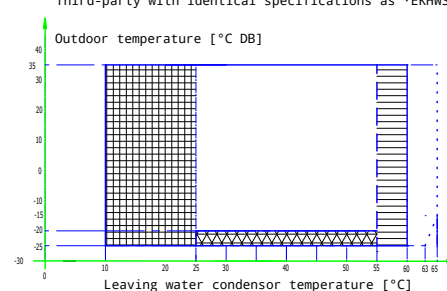
ELV* + ELS* + EKHWP* + EKHWS*200*
EKHWS*250*
EKHWS*300*

+ Third-party with identical specifications as ·EKHWS*200*·



EKHWS*150*
EKHWS*180*

+ Third-party with identical specifications as ·EKHWS*150*·

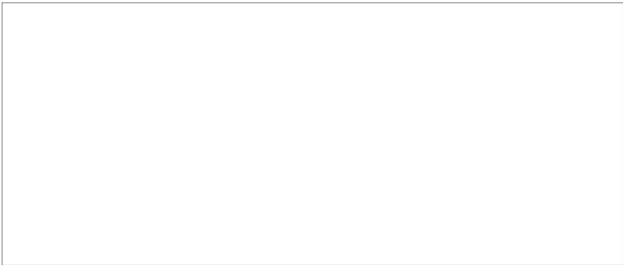


- Legend
- Setpoint [°C]
 - Domestic hot water
 - Leaving water temperature [°C]
 - Pull-up area
 - Booster heater only operation (if a booster heater is part of the system)
 - (1) ·ELV*12*· indoor units only
 - (2) Combination of ·EKHWS*· and ·ELB*· indoor units / ·ELS*12*· indoor units only
 - (3) Combination of ·EKHWP*· and ·ELB*· indoor units
 - Operation of the outdoor unit is possible. If the outdoor temperature drops below -20°C, unit will continue operation. But when the unit is OFF and the outdoor temperature is below -20°C, the outdoor unit will not start up. The indoor unit and backup heater will start in these cases.

Notes

1. In restricted power supply mode (·EKHW*· only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as ·EKHWS*150*·
Coil surface > 1.05·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.
3. Third-party with identical specifications as ·EKHWS*200*·
Coil surface > 1.8·m² and < 3.7·m²
Tank thermistor and booster heater above heat pump coil.

3D142810



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03/2026



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