Daikin Altherma mid temperature split Technical Data

ERRA08-12EW1

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ERRA08-12EW1

1 Features

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› 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

-25°
Guaranteed operation down to -25°C

Onecta app

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Technical specifications					ELBH12E6V + ERRA08EW1	ELBH12E6V + ERRA10EW1	ELBH12E6V + ERRA12EW1
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 (3)		
		Nom.		kW	1.21 (2)		
		Max.		kW	1.63 (3)	1.98 (3)	2.21 (3)
COP					5.10 (2)		
Pump	Type				Grundfos UPM4L K 15-75 130 9 DKI		
	Nominal ESP unit	Heating		kPa	67.9 (4)		
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)	Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor			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		
	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		
	Integrated supplementary heater	Psup		kW	6.0		
		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
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		

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Technical specifications					ELBH12E6V + ERRA08EW1	ELBH12E6V + ERRA10EW1	ELBH12E6V + ERRA12EW1
Space heating	Average climate water outlet 55°C	A Condition (-7°CD-B/-8°CWB)	COPd		2.34		
			Pdh	kW	7.6		
			PERd	%	93.6		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.50		
			Pdh	kW	6.8		
			PERd	%	140.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.07		
			Pdh	kW	4.5		
			PERd	%	202.8		
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.61		
			Pdh	kW	5.2		
			PERd	%	104.2	104.4	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.90		
			Pdh	kW	3.3		
			PERd	%	156.0		

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Technical specifications					ELBH12E6V + ERRA08EW1	ELBH12E6V + ERRA10EW1	ELBH12E6V + ERRA12EW1
Space heating	Cold climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.96		
			Pdh	kW	3.4		
			PERd	%	198.3		
		D Condition (12°CD-B/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
			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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.66		
			Pdh	kW	8.0		
			PERd	%	106.5		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.79		
			Pdh	kW	6.7		
			PERd	%	151.5		
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.87		
			Pdh	kW	3.6		
			PERd	%	234.9		
		Tbiv (bivalent temperature)	COPd		3.13		

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Technical specifications					ELBH12E6V + ERRA08EW1	ELBH12E6V + ERRA10EW1	ELBH12E6V + ERRA12EW1
Space heating	Warm climate water outlet 55°C	Tbiv (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°CD-B/-8°CWB)	COPd		3.20		
			Pdh	kW	7.5		
			PERd	%	128.0		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.93		
			Pdh	kW	4.4		
			PERd	%	197.2		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.37		
			Pdh	kW	4.3		
			PERd	%	254.8		
		D Condition (12°CD-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		

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Technical specifications					ELBH12E6V + ERRA08EW1	ELBH12E6V + ERRA10EW1	ELBH12E6V + ERRA12EW1
Space heating	Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj	19.4	18.9	18.8
		A Condition (-7°CD-B/-8°CWB)	COPd		3.48		
			Pdh	kW	5.4		
			PERd	%	139.2		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.40		
			Pdh	kW	3.6		
			PERd	%	216.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.53		
			Pdh	kW	5.3		
			PERd	%	261.2		
		D Condition (12°CD-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
			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	
		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	1,993		
			ηs (Seasonal space heating efficiency)	%	228		
			Prated at 2°C	kW	8.6		
			Qhe Annual energy consumption (GCV)	Gj	7		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.17		
			Pdh	kW	6.8		
			PERd	%	166.8		
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/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°CD-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 - LWC 35°C (DT = 5°C) |
(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

Technical specifications				ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
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 (3)		
		Nom.	kW	1.21 (2)		
		Max.	kW	1.63 (3)	1.98 (3)	2.21 (3)
COP				5.10 (2)		

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Technical specifications					ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
Pump	Type				Grundfos UPM4L K 15-75 130 9 DKI		
	Nominal ESP unit	Heating		kPa	67.9 (4)		
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)	Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor			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		
	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		
	Integrated supplementary 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
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		

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Technical specifications					ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
Space heating	Average climate water outlet 55°C	A Condition (-7°CD-B/-8°CWB)	COPd		2.34		
			Pdh	kW	7.6		
			PERd	%	93.6		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.50		
			Pdh	kW	6.8		
			PERd	%	140.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.07		
			Pdh	kW	4.5		
			PERd	%	202.8		
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.61		
			Pdh	kW	5.2		
			PERd	%	104.2	104.4	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.90		
			Pdh	kW	3.3		
			PERd	%	156.0		

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Technical specifications					ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
Space heating	Cold climate water outlet 55°C	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		
		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
			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/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.66		
			Pdh	kW	8.0		
			PERd	%	106.5		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.79		
			Pdh	kW	6.7		
			PERd	%	151.5		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.87		
			Pdh	kW	3.6		
			PERd	%	234.9		
		Tbiv (bivalent temperature)	COPd		3.13		

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Technical specifications					ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
Space heating	Warm climate water outlet 55°C	Tbiv (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°CD-B/-8°CWB)	COPd		3.20		
			Pdh	kW	7.5		
			PERd	%	128.0		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.93		
			Pdh	kW	4.4		
			PERd	%	197.2		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.37		
			Pdh	kW	4.3		
			PERd	%	254.8		
		D Condition (12°CD-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		

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Technical specifications					ELBH12E9W + ERRA08EW1	ELBH12E9W + ERRA10EW1	ELBH12E9W + ERRA12EW1
Space heating	Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj	19.4	18.9	18.8
		A Condition (-7°CDB/-8°CWB)	COPd		3.48		
			Pdh	kW	5.4		
			PERd	%	139.2		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.40		
			Pdh	kW	3.6		
			PERd	%	216.0		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.53		
			Pdh	kW	5.3		
			PERd	%	261.2		
		D Condition (12°CDB/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
			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	
		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	1,993		
			ηs (Seasonal space heating efficiency)	%	228		
			Prated at 2°C	kW	8.6		
			Qhe Annual energy consumption (GCV)	Gj	7		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.17		
			Pdh	kW	6.8		
			PERd	%	166.8		
Space heating	Warm climate water outlet 35°C	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)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

Technical specifications				ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
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)		

2 Specifications

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Technical specifications					ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
EER					3.28 (3) / 5.75 (4)	3.10 (4) / 5.75	3.01 (3) / 5.75 (4)
Pump	Type				Grundfos UPM4L K 15-75 130 9 DKI		
	Nominal ESP unit	Heating		kPa	67.9 (6)		
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)	Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor			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		
	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		
	Integrated supplementary heater	Psup		kW	6.0		
		Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442	7,423	7,210
			ηs (Seasonal space heating efficiency)	%	136		140
			Prated at -10°C	kW	12.5		
			Qhe Annual energy consumption (GCV)	Gj	27		26

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Technical specifications					ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
Space heating	Average climate water outlet 55°C	General	SCOP		3.47	3.48	3.58
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.34		
			Pdh	kW	7.6		
			PERd	%	93.6		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.50		
			Pdh	kW	6.8		
			PERd	%	140.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.07		
			Pdh	kW	4.5		
			PERd	%	202.8		
		D Condition (12°CD-B/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	7,028	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.61		
			Pdh	kW	5.2		
			PERd	%	104.2	104.4	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		

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2 - 1 Specifications

Technical specifications					ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
Space heating	Cold climate water outlet 55°C	B Condition (2°CD-B/1°CWB)	COPd		3.90		
			Pdh	kW	3.3		
			PERd	%	156.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.96		
			Pdh	kW	3.4		
			PERd	%	198.3		
		D Condition (12°CD-B/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
			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	2,853		
			ηs (Seasonal space heating efficiency)	%	177		
			Prated at 2°C	kW	9.6		
			Qhe Annual energy consumption (GCV)	Gj	10		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.66		
			Pdh	kW	8.0		
			PERd	%	106.5		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.79		
			Pdh	kW	6.7		
			PERd	%	151.5		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.87		

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Technical specifications					ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
Space heating	Warm climate water outlet 55°C	D Condition (12°CD-B/11°CWB)	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	
			Seasonal space heating eff. class			A+++	
		A Condition (-7°CD-B/-8°CWB)	COPd			3.20	
			Pdh	kW		7.5	
			PERd	%		128.0	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			4.93	
			Pdh	kW		4.4	
			PERd	%		197.2	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd			6.37	
			Pdh	kW		4.3	
			PERd	%		254.8	
		D Condition (12°CD-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	

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2 - 1 Specifications

Technical specifications					ELBX12E6V + ERRA08EW1	ELBX12E6V + ERRA10EW1	ELBX12E6V + ERRA12EW1
Space heating	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°CD-B/-8°CWB)	COPd		3.48		
			Pdh	kW	5.4		
			PERd	%	139.2		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.40		
			Pdh	kW	3.6		
			PERd	%	216.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.53		
			Pdh	kW	5.3		
			PERd	%	261.2		
		D Condition (12°CD-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
			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	
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
Space heating	Warm climate water outlet 35°C	B Condition (2°CD-B/1°CWB)	COPd		4.17		
			Pdh	kW	6.8		
			PERd	%	166.8		
		C Condition (7°CD-B/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°CD-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 - 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)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

2 Specifications

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Technical specifications					ELBX12E9W + ERRA08EW1	ELBX12E9W + ERRA10EW1	ELBX12E9W + ERRA12EW1
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)	3.10 (4) / 5.75	3.01 (3) / 5.75 (4)
Pump	Type				Grundfos UPM4L K 15-75 130 9 DKI		
	Nominal ESP unit	Heating		kPa	67.9 (6)		
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)	Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor			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		
	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		
	Integrated supplementary heater	Psup		kW	9.0		
		Type of energy input			Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442	7,423	7,210
			ηs (Seasonal space heating efficiency)	%	136		140
			Prated at -10°C	kW	12.5		
			Qhe Annual energy consumption (GCV)	Gj	27		26

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2 - 1 Specifications

Technical specifications					ELBX12E9W + ERRA08EW1	ELBX12E9W + ERRA10EW1	ELBX12E9W + ERRA12EW1
Space heating	Average climate water outlet 55°C	General	SCOP		3.47	3.48	3.58
			Seasonal space heating eff. class		A++		
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.34		
			Pdh	kW	7.6		
			PERd	%	93.6		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.50		
			Pdh	kW	6.8		
			PERd	%	140.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.07		
			Pdh	kW	4.5		
			PERd	%	202.8		
		D Condition (12°CD-B/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	7,028	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.61		
			Pdh	kW	5.2		
			PERd	%	104.2	104.4	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		

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2 - 1 Specifications

Technical specifications					ELBX12E9W + ERRA08EW1	ELBX12E9W + ERRA10EW1	ELBX12E9W + ERRA12EW1
Space heating	Cold climate water outlet 55°C	B Condition (2°CD-B/1°CWB)	COPd		3.90		
			Pdh	kW	3.3		
			PERd	%	156.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.96		
			Pdh	kW	3.4		
			PERd	%	198.3		
		D Condition (12°CD-B/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
			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	2,853		
			ηs (Seasonal space heating efficiency)	%	177		
			Prated at 2°C	kW	9.6		
			Qhe Annual energy consumption (GCV)	Gj	10		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.66		
			Pdh	kW	8.0		
			PERd	%	106.5		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.79		
			Pdh	kW	6.7		
			PERd	%	151.5		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.87		

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2 - 1 Specifications

Technical specifications					ELBX12E9W + ERRA08EW1	ELBX12E9W + ERRA10EW1	ELBX12E9W + ERRA12EW1
Space heating	Warm climate water outlet 55°C	D Condition (12°CD-B/11°CWB)	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	
			Seasonal space heating eff. class			A+++	
		A Condition (-7°CD-B/-8°CWB)	COPd			3.20	
			Pdh	kW		7.5	
			PERd	%		128.0	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			4.93	
			Pdh	kW		4.4	
			PERd	%		197.2	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd			6.37	
			Pdh	kW		4.3	
			PERd	%		254.8	
		D Condition (12°CD-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	

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Technical specifications					ELBX12E9W + ERRA08EW1	ELBX12E9W + ERRA10EW1	ELBX12E9W + ERRA12EW1
Space heating	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°CD-B/-8°CWB)	COPd		3.48		
			Pdh	kW	5.4		
			PERd	%	139.2		
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.40		
			Pdh	kW	3.6		
			PERd	%	216.0		
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		6.53		
			Pdh	kW	5.3		
			PERd	%	261.2		
		D Condition (12°CD-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
			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	
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0		
Space heating	Warm climate water outlet 35°C	B Condition (2°CD-B/1°CWB)	COPd		4.17		
			Pdh	kW	6.8		
			PERd	%	166.8		
		C Condition (7°CD-B/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°CD-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 - 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)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

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Technical specifications				ELSH12P30E + ERRA08EW1	ELSH12P50E + ERRA08EW1	ELSH12P30E + ERRA10EW1	ELSH12P50E + ERRA10EW1	ELSH12P30E + ERRA12EW1	ELSH12P50E + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	3.44 (4)	4.65 (4)	3.44 (4)	4.65 (4)	3.44 (4)	4.65 (4)
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					
	Nominal ESP unit	Heating	kPa	55.4 (5)					
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		No					
		Water-to-water heat pump		No					
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)	44.7					
LW(A) Sound power level (according to EN14825)	Outdoor		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					
	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 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
Domestic hot water heating	Average climate	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
	Warm climate	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					ELSH12P30E + ERRA08EW1	ELSH12P50E + ERRA08EW1	ELSH12P30E + ERRA10EW1	ELSH12P50E + ERRA10EW1	ELSH12P30E + ERRA12EW1	ELSH12P50E + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.23					
			Pdh	kW	5.2					
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/11°CWB)	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					
			WTOL	°C	55					
		G Condition (-15°CDB/-)	COPd		2.00		2.03			
			Pdh	kW	6.0		7.2			

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Technical specifications					ELSH12P30E + ERRA08EW1	ELSH12P50E + ERRA08EW1	ELSH12P30E + ERRA10EW1	ELSH12P50E + ERRA10EW1	ELSH12P30E + ERRA12EW1	ELSH12P50E + ERRA12EW1
Space heating	Cold climate water outlet 55°C	G Condition (-15°CDB/-)	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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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°CD-B/-8°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					

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Technical specifications					ELSH12P30E + ERRA08EW1	ELSH12P50E + ERRA08EW1	ELSH12P30E + ERRA10EW1	ELSH12P50E + ERRA10EW1	ELSH12P30E + ERRA12EW1	ELSH12P50E + ERRA12EW1
Space heating	Average climate water outlet 35°C	B Condition (2°CD-B/1°CWB)	Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.98					

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Technical specifications					ELSH12P30E + ERRA08EW1	ELSH12P50E + ERRA08EW1	ELSH12P30E + ERRA10EW1	ELSH12P50E + ERRA10EW1	ELSH12P30E + ERRA12EW1	ELSH12P50E + ERRA12EW1
Space heating	Cold climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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°CDB/-)	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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-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 - LWC 35°C (DT = 5°C) |
(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical specifications				ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
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)	
	Domestic 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)					
EER				3.28 (3) / 5.75 (4)		3.10 (4) / 5.75		3.01 (3) / 5.75 (4)	
Pump	Type			Grundfos UPM4L K 20-75 CHBL 3 RT					
	Nominal ESP unit	Heating	kPa	55.4 (7)					
Water side Heat exchanger	Water flow rate	Heating	Nom. l/min	18.3					

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Technical specifications					ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
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			No					
		Water-to-water heat pump			No					
	LW(A) Sound power level (according to EN14825)	Indoor		dB(A)	44.7					
LW(A) Sound power level (according to EN14825)	Outdoor			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					
	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 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
Domestic hot water heating	Average climate	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
	Warm climate	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
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442		7,423		7,210	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Prated at -10°C	kW	12.5					
			Qhe Annual energy consumption (GCV)	Gj	27				26	
			SCOP		3.47		3.48		3.58	
			Seasonal space heating eff. class		A++					
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					

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Technical specifications					ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/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	7,028		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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					

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Technical specifications					ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	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	2,853					
			ηs (Seasonal space heating efficiency)	%	177					
			Prated at 2°C	kW	9.6					
			Qhe Annual energy consumption (GCV)	Gj	10					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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			
			Seasonal space heating eff. class		A+++					
		A Condition (-7°CDB/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					

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Technical specifications					ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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	5,334		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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					

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Technical specifications					ELSX12P30E + ERRA08EW1	ELSX12P50E + ERRA08EW1	ELSX12P30E + ERRA10EW1	ELSX12P50E + ERRA10EW1	ELSX12P30E + ERRA12EW1	ELSX12P50E + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.78					
			Pdh	kW	6.1					
Space heating	Warm climate water outlet 35°C	D Condition (12°CD-B/11°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				ELSHB12P30E + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	3.44 (4)	4.65 (4)	3.44 (4)	4.65 (4)	3.44 (4)	4.65 (4)
Heat up time from 10°C to 50°C			hr	2h29min	3h45min	2h29min	3h45min	2h29min	3h45min
COP				5.10 (2)					

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Technical specifications				ELSHB12P30E + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
Pump	Type			Grundfos UPM4L K 20-75 CHBL 3 RT					
	Nominal ESP unit	Heating	kPa	55.4 (5)					
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		No					
		Water-to-water heat pump		No					
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)	44.7					
LW(A) Sound power level (according to EN14825)	Outdoor		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					
	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 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
Domestic hot water heating	Average climate	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
	Warm climate	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 + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.23					
			Pdh	kW	5.2					
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/11°CWB)	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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					
			WTOL	°C	55					
		G Condition (-15°CDB/-)	COPd		2.00		2.03			
			Pdh	kW	6.0		7.2			

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Technical specifications					ELSHB12P30E + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
Space heating	Cold climate water outlet 55°C	G Condition (-15°CDB/-)	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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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°CD-B/-8°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					

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Technical specifications					ELSHB12P30E + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
Space heating	Average climate water outlet 35°C	B Condition (2°CD-B/1°CWB)	Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.98					

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Technical specifications					ELSHB12P30E + ERRA08EW1	ELSHB12P50E + ERRA08EW1	ELSHB12P30E + ERRA10EW1	ELSHB12P50E + ERRA10EW1	ELSHB12P30E + ERRA12EW1	ELSHB12P50E + ERRA12EW1
Space heating	Cold climate water outlet 35°C	D Condition (12°CD-B/11°CWB)	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°CDB/-)	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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-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 - LWC 35°C (DT = 5°C) |
(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical specifications				ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
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)	
	Domestic 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)					
EER				3.28 (3) / 5.75 (4)		3.10 (4) / 5.75		3.01 (3) / 5.75 (4)	
Pump	Type			Grundfos UPM4L K 20-75 CHBL 3 RT					
	Nominal ESP unit	Heating	kPa	55.4 (7)					
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	18.3					

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Technical specifications					ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
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			No					
		Water-to-water heat pump			No					
	LW(A) Sound power level (according to EN14825)	Indoor		dB(A)	44.7					
LW(A) Sound power level (according to EN14825)	Outdoor			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					
	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 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
Domestic hot water heating	Average climate	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
	Warm climate	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
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442		7,423		7,210	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Prated at -10°C	kW	12.5					
			Qhe Annual energy consumption (GCV)	Gj	27				26	
			SCOP		3.47		3.48		3.58	
			Seasonal space heating eff. class		A++					
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					

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Technical specifications					ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/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	7,028		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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					

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Technical specifications					ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	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	2,853					
			ηs (Seasonal space heating efficiency)	%	177					
			Prated at 2°C	kW	9.6					
			Qhe Annual energy consumption (GCV)	Gj	10					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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			
			Seasonal space heating eff. class		A+++					
		A Condition (-7°CDB/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					

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Technical specifications					ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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	5,334		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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					

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Technical specifications					ELSXB12P30E + ERRA08EW1	ELSXB12P50E + ERRA08EW1	ELSXB12P30E + ERRA10EW1	ELSXB12P50E + ERRA10EW1	ELSXB12P30E + ERRA12EW1	ELSXB12P50E + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.78					
			Pdh	kW	6.1					
Space heating	Warm climate water outlet 35°C	D Condition (12°CD-B/11°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				ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)
Heat up time from 10°C to 50°C			hr	1h 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					

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Technical specifications				ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
	Nominal ESP unit	Heating	kPa	67.1 (5)					
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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	6.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		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
Domestic hot water heating	Average 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

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Technical specifications					ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					

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Technical specifications					ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	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/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CDB/11°CWB)	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/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					

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Technical specifications					ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					

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Technical specifications					ELVH12S18E6V + ERRA08EW1	ELVH12S23E6V + ERRA08EW1	ELVH12S18E6V + ERRA10EW1	ELVH12S23E6V + ERRA10EW1	ELVH12S18E6V + ERRA12EW1	ELVH12S23E6V + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.78					
			Pdh	kW	6.1					
Space heating	Warm climate water outlet 35°C	D Condition (12°CD-B/11°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)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical specifications				ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)
Heat up time from 10°C to 50°C			hr	1h 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					

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Technical specifications				ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
	Nominal ESP unit	Heating	kPa	67.1 (5)					
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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	9.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		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
Domestic hot water heating	Average 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

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Technical specifications					ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
Space heating	Average climate water outlet 55°C	D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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	
			TOL	°C	-22					

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Technical specifications					ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	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/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CDB/11°CWB)	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/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					

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Technical specifications					ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					

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Technical specifications					ELVH12S18E9W + ERRA08EW1	ELVH12S23E9W + ERRA08EW1	ELVH12S18E9W + ERRA10EW1	ELVH12S23E9W + ERRA10EW1	ELVH12S18E9W + ERRA12EW1	ELVH12S23E9W + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%	261.2					
		D Condition (12°CDB/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	
			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			
		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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CDB/1°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					
Space heating	Warm climate water outlet 35°C	D Condition (12°CDB/11°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)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical specifications				ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
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)	
	Domestic 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 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					

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Technical specifications				ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
EER				3.28 (3) / 5.75 (4)		3.10 (4) / 5.75		3.01 (3) / 5.75 (4)	
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
	Nominal ESP unit	Heating	kPa	67.1 (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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	6.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		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
		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

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Technical specifications					ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442		7,423		7,210	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Prated at -10°C	kW	12.5					
			Qhe Annual energy consumption (GCV)	Gj	27				26	
			SCOP		3.47		3.48		3.58	
			Seasonal space heating eff. class		A++					
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
		D Condition (12°CD-B/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	7,028		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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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					ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
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 (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	2,853					
			ηs (Seasonal space heating efficiency)	%	177					
			Prated at 2°C	kW	9.6					
			Qhe Annual energy consumption (GCV)	Gj	10					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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					ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
Space heating	Average climate water outlet 35°C	General	Seasonal space heating eff. class		A+++					
		A Condition (-7°CD-B/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					
			PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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	5,334		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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					

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Technical specifications					ELVX12S18E6V + ERRA08EW1	ELVX12S23E6V + ERRA08EW1	ELVX12S18E6V + ERRA10EW1	ELVX12S23E6V + ERRA10EW1	ELVX12S18E6V + ERRA12EW1	ELVX12S23E6V + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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					
Space heating	Warm climate water outlet 35°C	D Condition (12°CD-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 - 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				ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
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)	
	Domestic 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 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					
EER				3.28 (3) / 5.75 (4)		3.10 (4) / 5.75		3.01 (3) / 5.75 (4)	

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Technical specifications				ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
	Nominal ESP unit	Heating	kPa	67.1 (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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	9.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		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
		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

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Technical specifications					ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,442		7,423		7,210	
			ηs (Seasonal space heating efficiency)	%	136				140	
			Prated at -10°C	kW	12.5					
			Qhe Annual energy consumption (GCV)	Gj	27				26	
			SCOP		3.47		3.48		3.58	
			Seasonal space heating eff. class		A++					
		A Condition (-7°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.07					
			Pdh	kW	4.5					
			PERd	%	202.8					
		D Condition (12°CD-B/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	7,028		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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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					ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
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 (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	2,853					
			ηs (Seasonal space heating efficiency)	%	177					
			Prated at 2°C	kW	9.6					
			Qhe Annual energy consumption (GCV)	Gj	10					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CD-B/11°CWB)	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					ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
Space heating	Average climate water outlet 35°C	General	Seasonal space heating eff. class		A+++					
		A Condition (-7°CD-B/-8°CWB)	COPd		3.20					
			Pdh	kW	7.5					
			PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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	5,334		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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					

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Technical specifications					ELVX12S18E9W + ERRA08EW1	ELVX12S23E9W + ERRA08EW1	ELVX12S18E9W + ERRA10EW1	ELVX12S23E9W + ERRA10EW1	ELVX12S18E9W + ERRA12EW1	ELVX12S23E9W + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					
			Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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					
Space heating	Warm climate water outlet 35°C	D Condition (12°CD-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 - 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				ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)
Heat up time from 10°C to 50°C			hr	1h 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
Pump Additional Zone	Nominal ESP unit	Heating	kPa	61.4 (5)					

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Technical specifications				ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
Pump Main Zone	Nominal ESP unit	Heating	kPa	59.5 (5)					
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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	6.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		COPdhw		2.80	3.05	2.80	3.05	2.80	3.05
Domestic hot water heating	Average 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
		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

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Technical specifications					ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	PERd	%	202.8					
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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					ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
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/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CDB/11°CWB)	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/-8°CWB)	COPd		3.20					

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Technical specifications					ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	Pdh	kW	7.5					
			PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					

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Technical specifications					ELVZ12S18E6V + ERRA08EW1	ELVZ12S23E6V + ERRA08EW1	ELVZ12S18E6V + ERRA10EW1	ELVZ12S23E6V + ERRA10EW1	ELVZ12S18E6V + ERRA12EW1	ELVZ12S23E6V + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-B/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.78					
Space heating	Warm climate water outlet	D Condition (12°CD-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) |
(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical specifications				ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
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 (3)					
		Nom.	kW	1.21 (2)					
		Max.	kW	1.63 (3)		1.98 (3)		2.21 (3)	
	Domestic hot water from 10°C to 50°C	Nom.	kWh	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)	2.54 (4)	3.09 (4)
Heat up time from 10°C to 50°C			hr	1h 51min	2h 10min	1h 51min	2h 10min	1h 51min	2h 10min
COP				5.10 (2)					
Pump	Type			Grundfos UPM4L K 15-75 130 9 DKI					
Pump Additional Zone	Nominal ESP unit	Heating	kPa	61.4 (5)					

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Technical specifications				ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
Pump Main Zone	Nominal ESP unit	Heating	kPa	59.5 (5)					
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)	Indoor	dB(A)	44.0					
LW(A) Sound power level (according to EN14825)	Outdoor		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)	m^3/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					
Space heating general	Integrated supplementary heater	Psup	kW	9.0					
		Type of energy input		Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	851	787	851	787	851	787
		COPdhw		2.80	3.05	2.80	3.05	2.80	3.05
Domestic hot water heating	Average 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
		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

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Technical specifications					ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.34					
			Pdh	kW	7.6					
			PERd	%	93.6					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.50					
			Pdh	kW	6.8					
			PERd	%	140.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.07					
			Pdh	kW	4.5					
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	PERd	%	202.8					
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.61					
			Pdh	kW	5.2					
			PERd	%	104.2		104.4			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.90					
			Pdh	kW	3.3					
			PERd	%	156.0					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.96					
			Pdh	kW	3.4					
			PERd	%	198.3					
		D Condition (12°CD-B/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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2 - 1 Specifications

Technical specifications					ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
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/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		2.66					
			Pdh	kW	8.0					
			PERd	%	106.5					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.79					
			Pdh	kW	6.7					
			PERd	%	151.5					
		D Condition (12°CDB/11°CWB)	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/-8°CWB)	COPd		3.20					

2 Specifications

2 - 1 Specifications

Technical specifications					ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	Pdh	kW	7.5					
			PERd	%	128.0					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.93					
			Pdh	kW	4.4					
			PERd	%	197.2					
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.37					
			Pdh	kW	4.3					
			PERd	%	254.8					
		D Condition (12°CD-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°CD-B/-8°CWB)	COPd		3.48					
			Pdh	kW	5.4					
			PERd	%	139.2					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.40					
			Pdh	kW	3.6					
			PERd	%	216.0					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		6.53					

2 Specifications

2 - 1 Specifications

Technical specifications					ELVZ12S18E9W + ERRA08EW1	ELVZ12S23E9W + ERRA08EW1	ELVZ12S18E9W + ERRA10EW1	ELVZ12S23E9W + ERRA10EW1	ELVZ12S18E9W + ERRA12EW1	ELVZ12S23E9W + ERRA12EW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	Pdh	kW	5.3					
			PERd	%	261.2					
		D Condition (12°CD-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	
			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			
		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	1,993					
			ηs (Seasonal space heating efficiency)	%	228					
			Prated at 2°C	kW	8.6					
			Qhe Annual energy consumption (GCV)	Gj	7					
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		4.17					
			Pdh	kW	6.8					
			PERd	%	166.8					
		C Condition (7°CD-B/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°CD-	Cdh (Degradation heating)		1.0					
			COPd		7.78					
Space heating	Warm climate water outlet	D Condition (12°CD-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) |
(3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
(4)Test at Ta DB/WB 7°C/6°C. According to EN 16147. |
(5)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB |
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB

Technical Specifications				ERRA08EW1	ERRA10EW1	ERRA12EW1
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		

2 Specifications

2 - 1 Specifications

Technical Specifications					ERRA08EW1	ERRA10EW1	ERRA12EW1
Heat exchanger	Length			mm	1,200		
	Rows	Quantity			2		
	Fin pitch			mm	2.00		
	Passes	Quantity			10		
	Face area			m^2	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.	m^3/min	59.0		
			High	m^3/min	89.9		
		Cooling	Nom.	m^3/min	80		
			High	m^3/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*l	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 pressure 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					ERRA08EW1	ERRA10EW1	ERRA12EW1
Power supply	Name					W1	
	Phase					3~	
	Frequency			Hz		50	
	Voltage			V		400	
	Voltage range	Min.		%		-10	
		cos phi	Nom.			0.72	
			Max.			0.93	
		Max.		%		10	
Current	Minimum Ssc value			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	

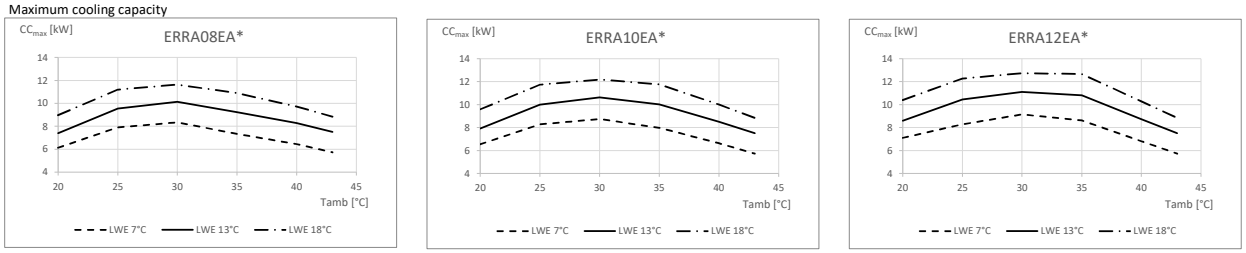
(1)Cooling Ta 35°C - LWE 18°C (DT = 5°C); Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |
(3)Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, 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 graphs

3 - 1 Cooling Capacity Graphs

ERRA08-12EV3
ERRA08-12EW1

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 ΔT = 3~8°C.

Notes

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

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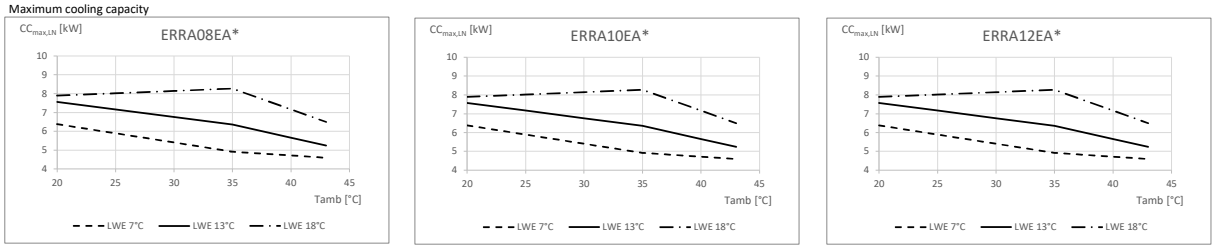
3 Capacity graphs

3 - 2 Cooling Capacity Graphs - quiet mode

ERRA08-12EV3
ERRA08-12EW1

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 ΔT = 3~8°C.

Notes

The capacity and power input is valid for ·V3· models at ·230·V and for 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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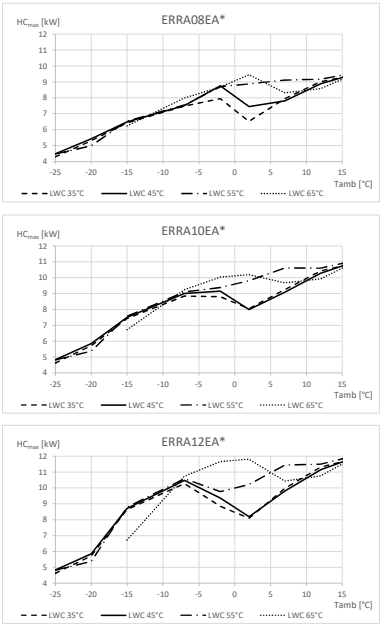
3 Capacity graphs

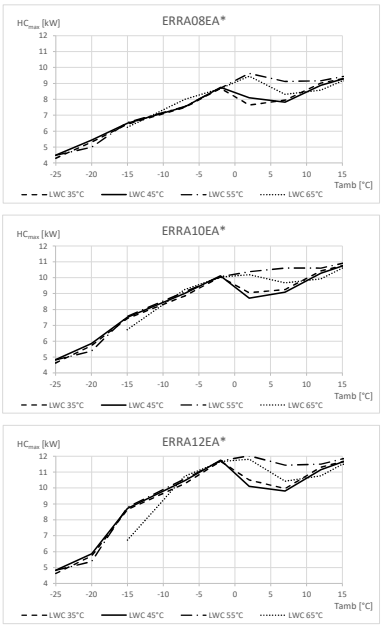
3 - 3 Heating Capacity Graphs

ERRA08-12EV3
ERRA08-12EW1

Maximum heating capacity - integrated value



Maximum heating capacity - peak values



Symbols

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

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3~8°C.

Notes

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

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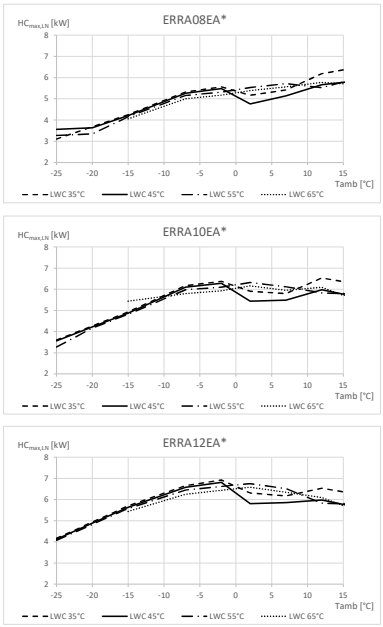
3 Capacity graphs

3 - 4 Heating Capacity Graphs - quiet mode

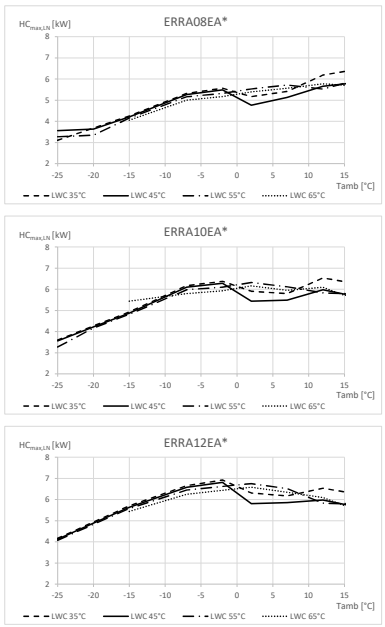
ERRA08-12EV3

ERRA08-12EW1

Maximum heating capacity - integrated value



Maximum heating capacity - peak values



Symbols

$HC_{max,LT}$ Heating capacity for maximum load, measured according to EN 14511

LWC Leaving water condensor temperature [°C]

Tamb Ambient temperature [°C DB]

Conditions

Heating capacity

Capacity according to standard EN 14511 and valid for heated water range ΔT = 3~8°C.

Notes

The capacity and power input is valid for ·V3· models at ·230·V and for 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 tables

4 - 1 Certification Programs

ERRA08-12EV3
ERRA08-12EW1

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°C]	LWC [°C]	ERRA08EAV3 HC [kW]	COP	ERRA10EAV3 HC [kW]	COP	ERRA12EAV3 HC [kW]	COP	ERRA08EAW1 HC [kW]	COP	ERRA10EAW1 HC [kW]	COP	ERRA12EAW1 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

Nominal cooling capacity

Tamb [°C]	EWE [°C]	LWE [°C]	ERRA08EAV3 CC [kW]	EER	ERRA10EAV3 CC [kW]	EER	ERRA12EAV3 CC [kW]	EER	ERRA08EAW1 CC [kW]	EER	ERRA10EAW1 CC [kW]	EER	ERRA12EAW1 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	ERRA10EAV3	ERRA12EAV3	ERRA08EAW1	ERRA10EAW1	ERRA12EAW1
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	ERRA*EAW1	ERRA*EAV3	ERRA*EAW1	ERRA*EAV3	ERRA*EAW1	ERRA*EAV3	ERRA*EAW1	
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_{es}	[W]	51,7	50,7	44,8	43,9	38,1	37,4	32,7	32,5	
V_{40}	[l]	240		298		172,6		260,0		
η_{wh}	[%]	116,7	120,3	126,4	130	115,7	119,3	131,5	135,7	
COP_{DHW}	[]	2,72	2,8	2,96	3,05	2,75	2,83	3,19	3,29	

Symbols

HC	Heating capacity measured according to EN 14511	LWE	Leaving water evaporator temperature [°C]	
CC	Cooling capacity, measured according to ·EN 14511·.	Tamb	Ambient temperature [°C DB/WB]	
COP/EER	Coefficient of Performance/Energy efficiency ratio according to EN 14511.	ϑ_{wh}	Reference Domestic hot water temperature [°C]	According to EN16147.
EWC	Entering water condenser temperature [°C]	P_{es}	Standby power input	According to EN16147.
LWC	Leaving water condensor temperature [°C]	V_{eq40}	Equivalent domestic hot water volume [l]	According to EN16147.
EWE	Entering water evaporator temperature [°C]	η_{wh}	Efficiency [%] Domestic hot water heating mode	According to EN16147.
		COP_{DHW}	Domestic hot water COP	

Rated data for certification programmes - heating mode
Measured according to ·UNI/TS 11300·

Condition · ·	Tamb [°C]	LWC [°C]	PLR [%]	ERRA08EAV3 HC [kW]	COP	ERRA10EAV3 HC [kW]	COP	ERRA12EAV3 HC [kW]	COP	ERRA08EAW1 HC [kW]	COP	ERRA10EAW1 HC [kW]	COP	ERRA12EAW1 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 [%]	ERRA08EAV3 CC [kW]	EER	ERRA10EAV3 CC [kW]	EER	ERRA12EAV3 CC [kW]	EER	ERRA08EAW1 CC [kW]	EER	ERRA10EAW1 CC [kW]	EER	ERRA12EAW1 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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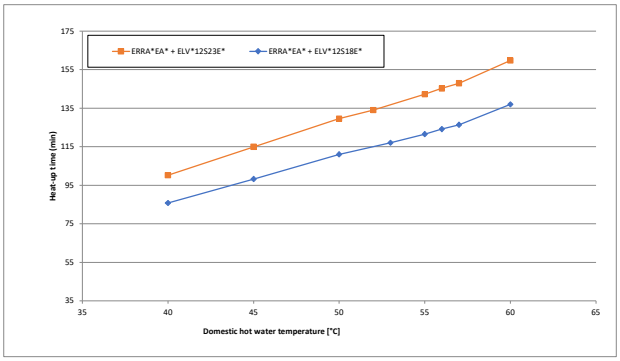
4 Capacity tables

4 - 2 Domestic Hot Water performance

ERRA08-12EV3
ERRA08-12EW1

Heat-up times



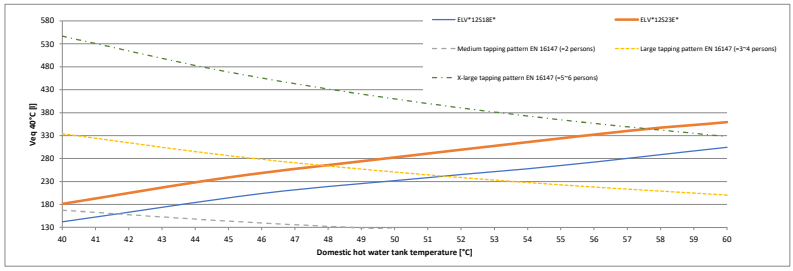
Notes

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
ERRA(08/10/12)EA* + ELV*12S18E*	98 min.
ERRA(08/10/12)EA* + ELV*12S23E*	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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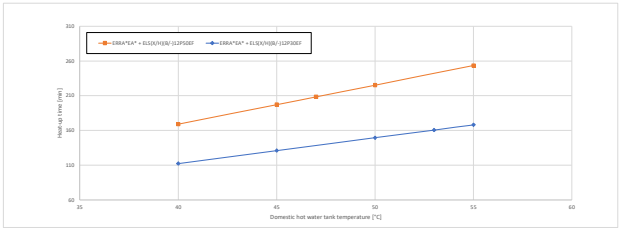
ERRA08-12EV3
ERRA08-12EW1

Heat-up times



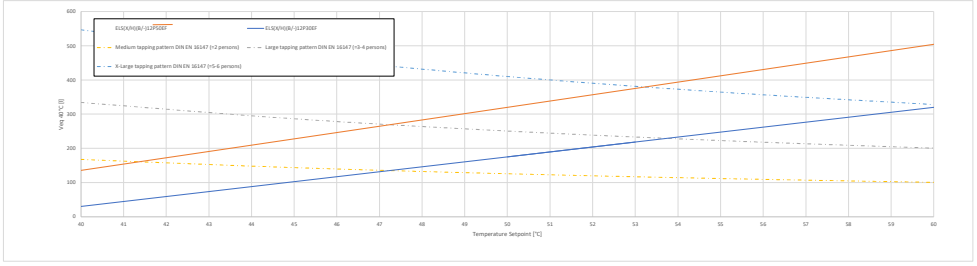
	Heat-up time domestic hot water tank until 45°C
ERRA*EA* + ELS(X/H)(B/-)12P3OEF	131 min.
ERRA*EA* + ELS(X/H)(B/-)12P5OEF	197 min.

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.

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.



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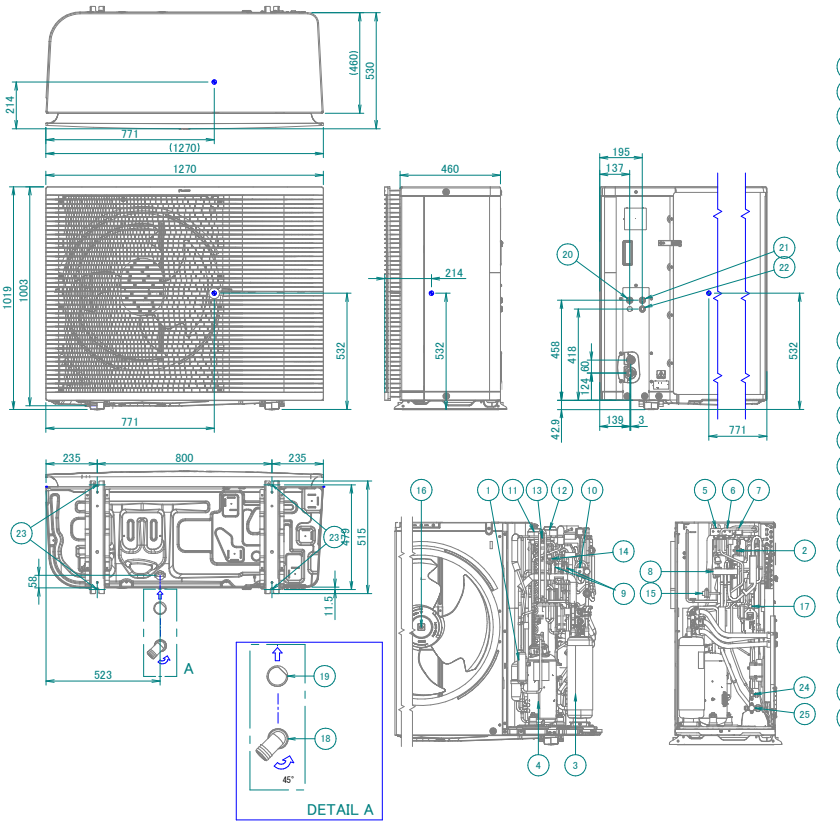
5 Dimensional drawings

5 - 1 Dimensional Drawings

ERRA08-12EV3 / ERRA08-12EW1



1 Muffler
2 High pressure switch ·41.7 bar·
3 Accumulator
4 Compressor
5 Solenoid valve (low pressure bypass)
6 Solenoid valve (hot gas pass)
7 Solenoid valve (liquid)
8 4-way valve
9 Capillary tube
10 4-way valve Coil
11 Electronic expansion valve (main)
12 Electronic expansion valve (injection)
13 High pressure switch ·46 bar·
14 Low pressure switch
15 Pressure sensor
16 Fan
17 Service port ·5/16"· flare
18 Drain elbow (included accessory)
19 Sealing (included accessory)
20 Drain tube heater cable intake
21 Interconnection cable intake
22 Power supply cable intake
23 4 holes for anchor bolts M12
24 Liquid stop valve ·1/4"·
25 Gas stop valve ·5/8"·

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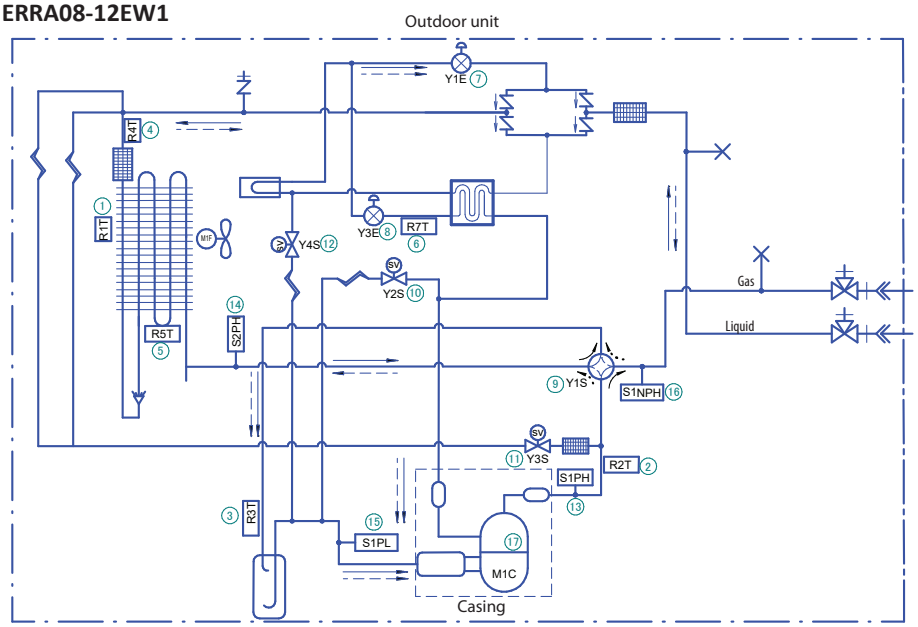
6 Piping diagrams

6 - 1 Piping Diagrams

ERRA08-12EV3
ERRA08-12EW1



①	R1T	Ambient thermistor
②	R2T	Thermistor (discharge)
③	R3T	Thermistor (suction)
④	R4T	Thermistor (heat exchanger, liquid pipe)
⑤	R5T	Thermistor (heat exchanger middle)
⑥	R7T	Thermistor (injection)
⑦	Y1E	Electronic expansion valve (main)
⑧	Y3E	Electronic expansion valve (injection)
⑨	Y1S	Solenoid valve (4-way valve)
⑩	Y2S	Solenoid valve (low pressure bypass)

⑪	Y3S	Solenoid valve (hot gas pass)
⑫	Y4S	Solenoid valve (liquid injection)
⑬	S1PH	High pressure switch ·4.6MPa·
⑭	S2PH	High pressure switch ·4.17MPa
⑮	S1PL	Low pressure switch
⑯	S1NPH	High pressure sensor
⑰	Q1E	Overload protector
		Brazed connection
		Flare connection

LEGEND

- PCB
- Electronic expansion valve
- Check valve
- Filter
- Economiser
- Solenoid valve
- Fan motor
- Stop valve
- Accumulator
- Pinched pipe
- Compressor
- Service port ·5/16"· flare
- S1NPH Pressure sensor
- Muffler
- S*PH High pressure switch
- S*PL High pressure switch
- Capillary tube
- 4-way valve
- Heating
- Cooling

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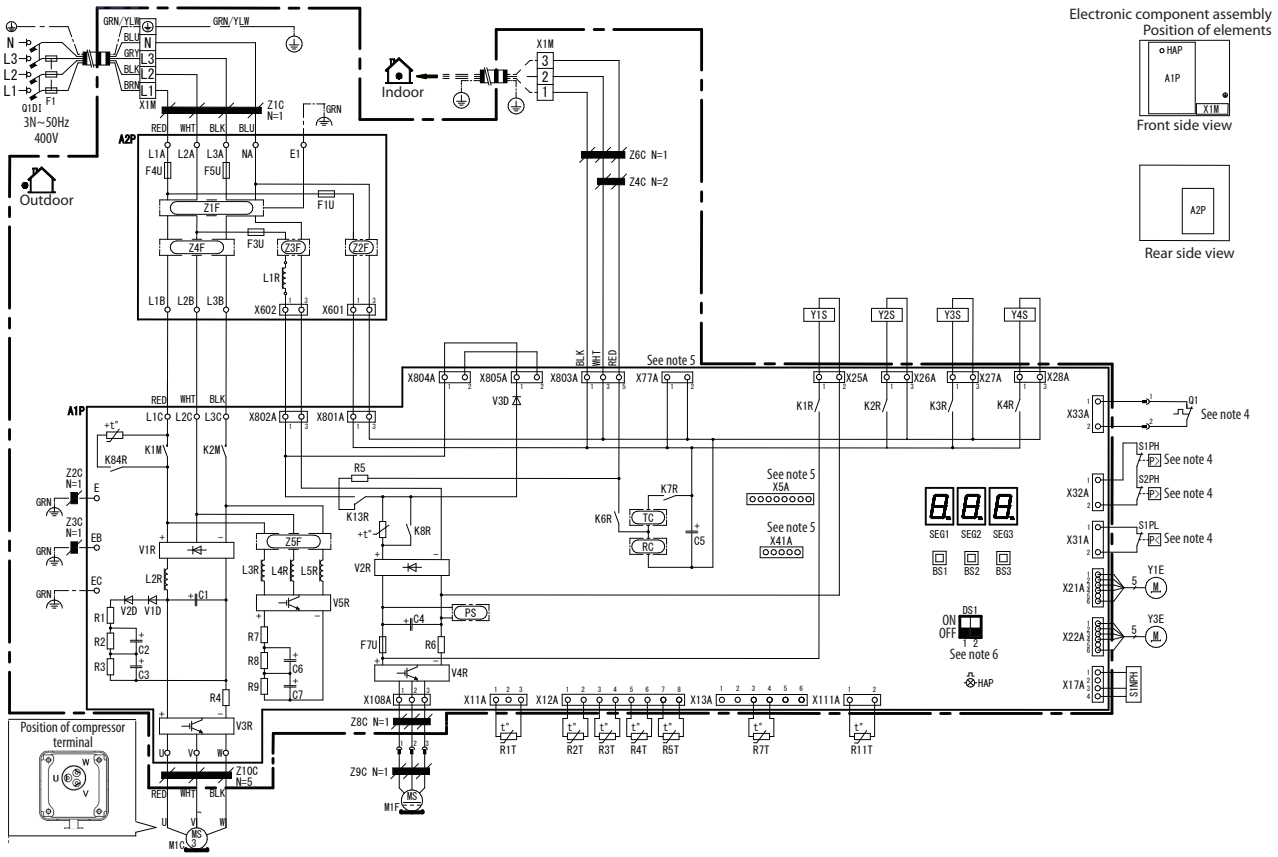
7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

ERRA08-12EW1



A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
BS1~BS3 (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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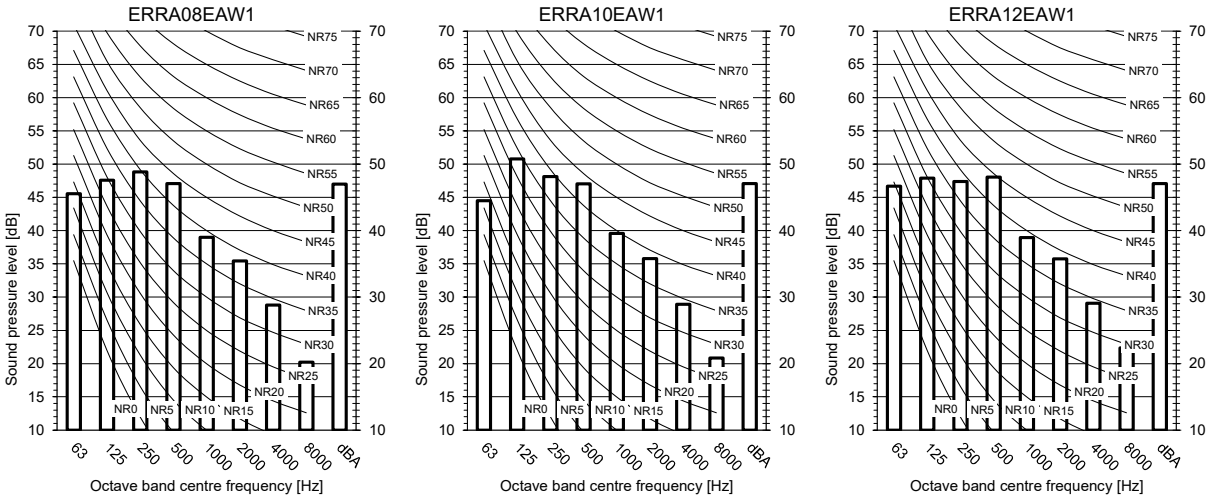
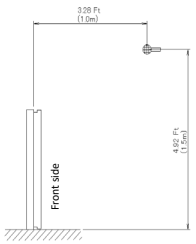
8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

ERRA08-12EW1



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.

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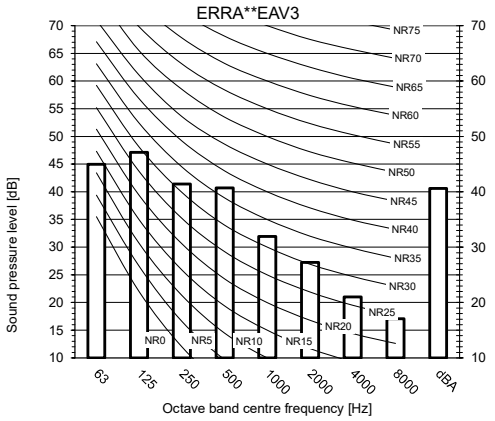
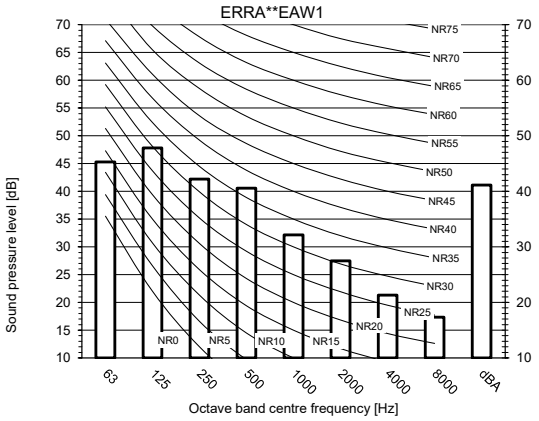
8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

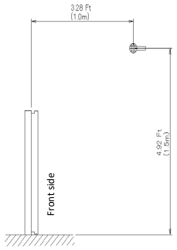
ERRA08-12EV3
ERRA08-12EW1





		Maximum sound day			Maximum sound night		
		Sound Power Level [dBA]			Sound Power Level [dBA]		
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)							

Measuring location (discharge side)



Notes
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Conditions: Ta DB/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.

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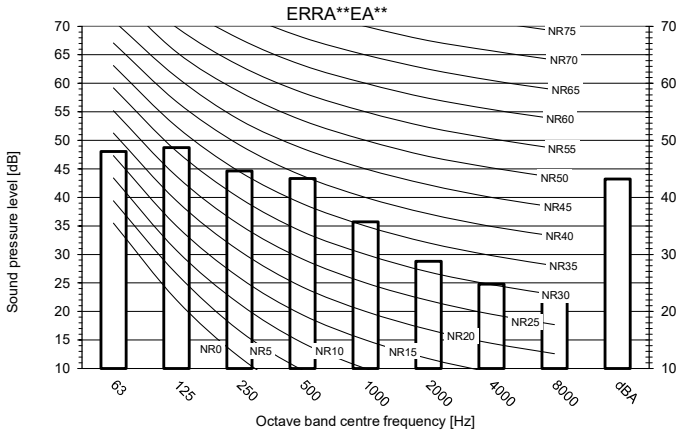
8 Sound data

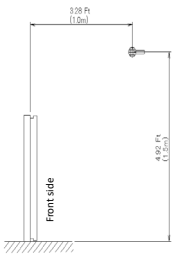
8 - 3 Sound Pressure Spectrum Quiet Mode

ERRA08-12EV3
ERRA08-12EW1



		Maximum sound day			Maximum sound night		
		Sound Power Level [dBA]			Sound Power Level [dBA]		
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)							

Measuring location
(discharge side)



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.

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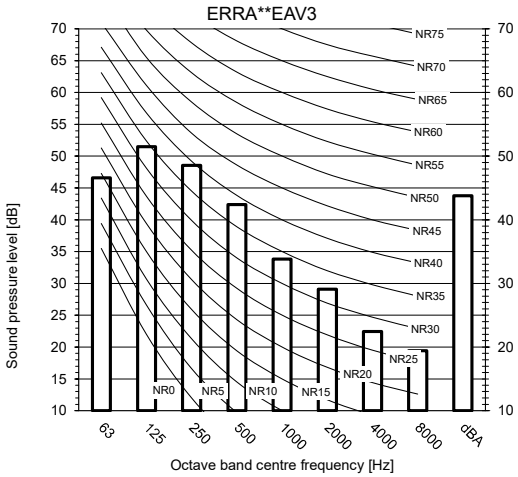
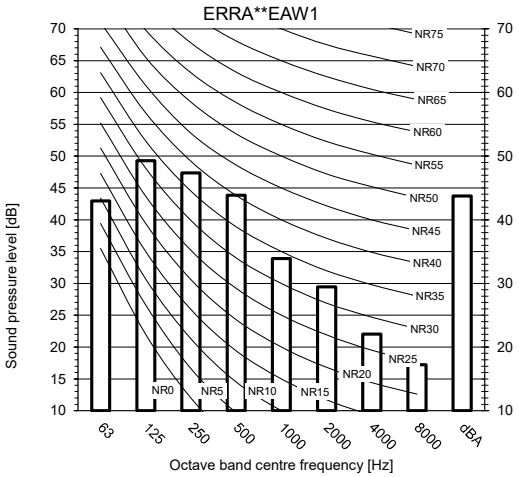
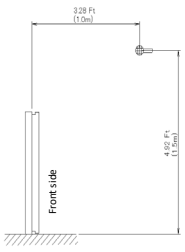
ERRA08-12EV3
ERRA08-12EW1





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.

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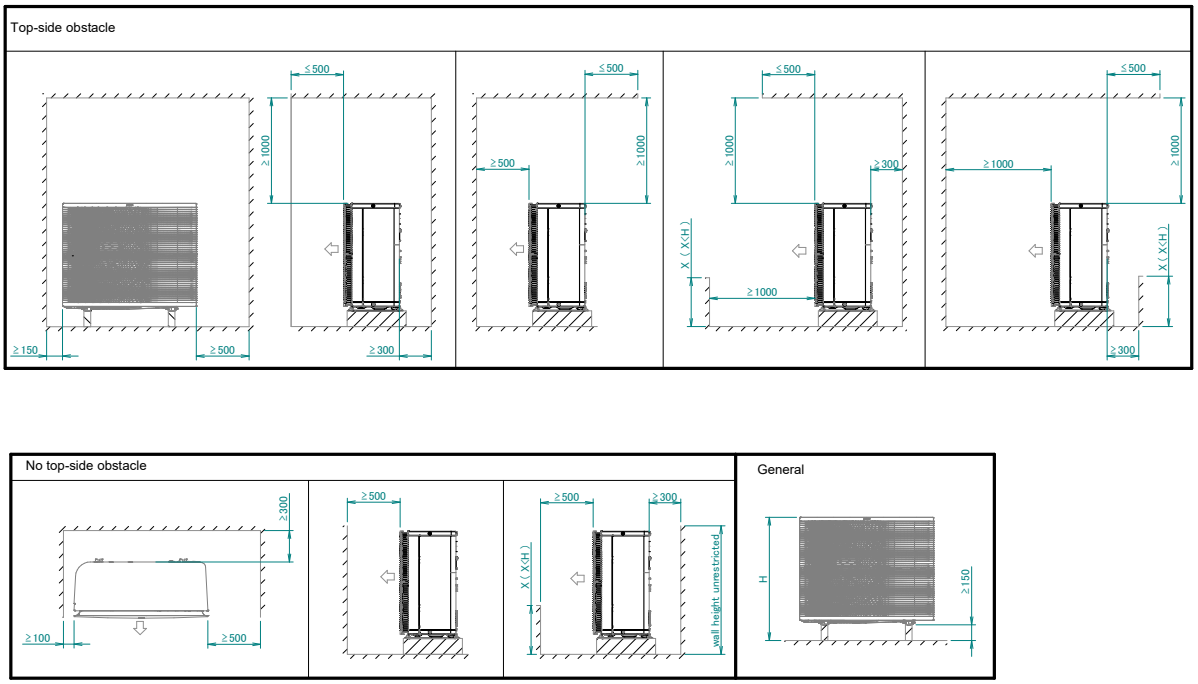
9 Installation

9 - 1 Installation Method

ERRA08-12EV3
ERRA08-12EW1

Minimum space for air passage



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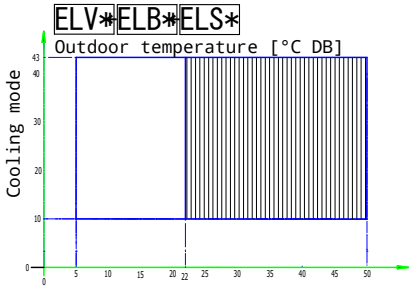
10 Operation range

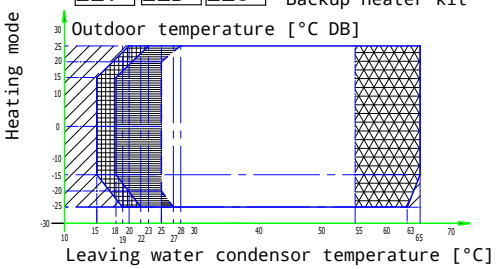
10 - 1 Operation Range

ERRA08-12EV3
ERRA08-12EW1

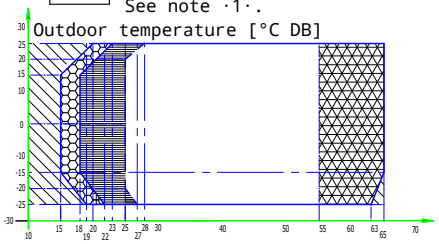
ELV*ELB*ELS*



ELV*ELB*ELS* Backup heater
Backup heater kit



ELS* No backup heater
With tank preheating
See note ·1··



Legend
- Backup heater only operation
  No outdoor unit operation
- Heat pump + backup heater operation
  Pull-up area
- Auxiliary boiler only operation
  No outdoor unit operation
- Heat pump + auxiliary boiler 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

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.

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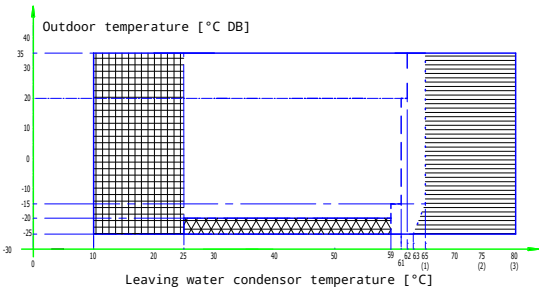
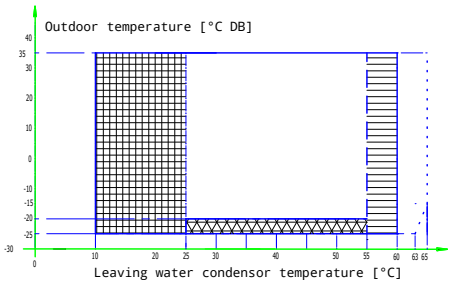
ERRA08-12EV3
ERRA08-12EW1

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

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

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