

Daikin Altherma high
temperature split
Technical Data
EPSK12-14AW1



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EPSK12-14AW1

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1 Features

1 - 1 EPSK12-14AW1

- › Best-in-class heating capacity, ensuring warmth at cold ambient
- › Outdoor unit extracts heat from the outdoor air, even at -28°C
- › By heat pump operation only, the outdoor unit delivers a leaving water temperature of 70-75°C at -15°C ambient temperature
- › Ultra low sound level of 50-54 dBA
- › Choosing natural refrigerant R-290 product reduces the environmental impact, leading to lower energy consumption



-28°

Guaranteed
operation
down to -28°C



Onecta app
(optional)



Online
controller

2 Specifications

2 - 1 Specifications

Technical specifications					EPBX14A4V + EPSK12AW1		EPBX14A4V + EPSK14AW1		
Indoor unit					EPBX14AF4V				
Outdoor unit					EPSK12ARW1		EPSK14ARW1		
Heating capacity		Nom.		kW	10.2 (1)				
		Max.		kW	11.99 (2)		13.34 (2)		
Cooling capacity		Nom.		kW	9.37 (3) / 6.74 (4)		11.3 (3) / 6.74 (4)		
Power input		Heating		Nom.	kW	1.86 (1)			
				Max.	kW	3.51 (5)		3.98 (5)	
		Cooling		Nom.	kW	2.64 (3) / 1.12 (4)		3.45 (3) / 1.12 (4)	
COP					5.50 (1)				
EER					3.55 (3) / 6.04 (4)		3.28 (3) / 6.04 (4)		
Pump	Nominal ESP unit	Heating		kPa	92.6				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	29.7				
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			No				
		Low-temperature heat pump			No				
		Supplementary heater integrated			Yes				
		Water-to-water heat pump			No				
	LW(A) Sound power level (according to EN14825)	dB(A)	dBA		45				
LW(A) Sound power level (according to EN14825)	dB(A)	dBA		52					
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product				
Space heating general	Air to water unit	Rated airflow (outdoor)			m³/h				
		Other			Inverter				
	Capacity control			Pck (Crankcase heater mode)					
				kW					
	Poff (Off mode)			kW					
	Psb (Standby mode)			kW					
	Pto (Thermostat off)			kW					
				0.022					
Integrated supplementary heater	Psup			kW					
	Type of energy input			Electrical					
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368		7,537		
			ηs (Seasonal space heating efficiency)	%	159		150		
			Prated at -10°C	kW	10.5		14		
			SCOP		4.04		3.84		
			Seasonal space heating eff. class			A+++			

2 Specifications

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Technical specifications				EPBX14A4V + EPSK12AW1	EPBX14A4V + EPSK14AW1
Space heating	Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1	
			COPd	2.63	2.52
			Pdh kW	9.4	12.4
			PERd %	105.2	100.8
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1	
			COPd	3.92	3.52
			Pdh kW	5.5	8
			PERd %	156.8	140.8
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)	1	
			COPd	5.18	5.38
			Pdh kW	3.9	5.1
			PERd %	207.2	215.2
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)	1	
			COPd	6.52	6.5
			Pdh kW	7.7	
			PERd %	260.8	260
	Cold climate water outlet 55°C	Tol (temperature operating limit)	COPd	2.28	2.29
			Pdh kW	10.6	14.3
			PERd %	91.2	91.6
			TOL °C	-10	
		Rated heat output supplementary capacity	WTOL °C	55	
			Psup (at Tdesign -10°C) kW	0	
			Tbiv (bivalent temperature)		
			COPd	2.28	2.29
		General	Pdh kW	10.6	14.3
			PERd %	91.2	91.6
			Tbiv °C	-10	
			Annual energy consumption kWh	7,028	9,152
		ns (Seasonal space heating efficiency)	%	137	
			Prated at -22°C kW	10	13
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1	
			COPd	3.04	
			Pdh kW	8.4	
			PERd %	121.6	
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)	1	
			COPd	4.07	3.95
			Pdh kW	3.8	4.7
			PERd %	162.8	158

2 Specifications

2 - 1 Specifications

Technical specifications				EPBX14A4V + EPSK12AW1	EPBX14A4V + EPSK14AW1
Space heating Cold climate water outlet 55°C	C Condition (7°CDB/- B/6°CWB)	Cdh (Degradation heating)		1	
		COPd		5.39	5.63
		Pdh	kW	5.3	
		PERd	%	215.6	225.2
		COPd		6.95	7.09
		Pdh	kW	6.7	
		PERd	%	278	283.6
		Tol (tem- perature operating limit)	COPd	1.64	1.67
			Pdh	9.3	10.7
			PERd	65.6	66.8
			TOL	-22	
			WTOL	55	
	D Condition (12°CDB/- B/11°CWB)	G Condition (-15°CDB/-)		2.09	2.2
		COPd		8.4	10.7
		Pdh	kW	83.6	88
		PERd	%	2.09	2.2
		Pdh	kW	8.4	10.7
		PERd	%	83.6	88
		Tbiv (bivalent tempera- ture)	Tbiv	-15	
			°C		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	0.7	2.3
			kW		
	Warm climate water outlet 55°C	General	Annual energy consumption	3,206	3,935
			ηs (Seasonal space heating efficiency)	180	188
			Prated at 2°C	11	14.1
			kW		
		B Condition (2°CDB/- B/1°CWB)	Cdh (Degradation heating)	1	
			COPd	2.61	2.43
			Pdh	9.1	10.8
			PERd	104.4	97.2
		C Condition (7°CDB/- B/6°CWB)	Cdh (Degradation heating)	1	
			COPd	4.14	4.4
			Pdh	7.3	9.9
			PERd	165.6	176
		D Condition (12°CDB/- B/11°CWB)	Cdh (Degradation heating)	1	
			COPd	6.27	6.31
			Pdh	6.1	5.7
			PERd	250.8	252.4
		Tbiv (bivalent)	COPd	4.14	4.4
			Pdh	7.3	9.9

2 Specifications

2 - 1 Specifications

Technical specifications					EPBX14A4V + EPSK12AW1	EPBX14A4V + EPSK14AW1
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	PERd Tbiv	% °C	165.6	176
					7	
Average climate water outlet 35°C	General	Annual energy consumption	kWh		4,020	4,999
		ηs (Seasonal space heating efficiency)	%		203	195
		Prated at -10°C	kW		10	12
		SCOP			5.14	4.96
		Seasonal space heating eff. class			A+++	
	A Condition (-7°CDB/-8°CWB)	COPd			3.69	3.45
		Pdh	kW		8.9	10.9
		PERd	%		147.6	138
	B Condition (2°CDB/-8°CWB)	Cdh (Degradation heating)			1	
		COPd			4.85	4.58
		Pdh	kW		6.3	6.7
		PERd	%		194	183.2
	C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1	
		COPd			6.63	6.67
		Pdh	kW		8	
		PERd	%		265.2	266.8
	D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)			1	
		COPd			8.48	8.42
		Pdh	kW		8.6	
		PERd	%		339.2	336.8
	Tol (temperature operating limit)	COPd			3.25	3.18
		Pdh	kW		9.8	12.5
		PERd	%		130	127.2
		TOL	°C		-10	
		WTOL	°C		35	
	G Condition (-15°CDB/-)	PERd	%		0	
	Tbiv (bivalent temperature)	COPd			3.25	3.18
		Pdh	kW		9.8	12.5
		PERd	%		130	127.2
		Tbiv	°C		-10	
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0	
Cold climate water outlet 35°C	General	Annual energy consumption	kWh		5,383	6,942
		ηs (Seasonal space heating efficiency)	%		180	182
		Prated at -22°C	kW		10	13
	A Condition (-7°CDB/-8°CWB)	COPd			4.03	

2 Specifications

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Technical specifications					EPBX14A4V + EPSK12AW1		EPBX14A4V + EPSK14AW1			
 Space heating	Cold climate water outlet 35°C	A Condition (-7°CDB- B/-8°CWB)	Pdh	kW	7.9					
			PERd	%	161.2					
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1				
			COPd		5.47	5.6				
			Pdh	kW	4.2	4.8				
			PERd	%	218.8	224				
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1				
			COPd		7.27	7.49				
			Pdh	kW	5.6	6.6				
			PERd	%	290.8	299.6				
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1				
			COPd		8.73					
			Pdh	kW	7.7					
			PERd	%	349.2					
		Tol (tem- perature operating limit)	COPd		2.1	2.05				
			Pdh	kW	8.6	9.7				
			PERd	%	84	82				
			TOL	°C	-22					
		WTOL	°C	35						
		G Condition (-15°CDB/-)	COPd		2.54	2.5				
			Pdh	kW	8	10.9				
			PERd	%	101.6	100				
		Tbiv (bivalent tempera- ture)	COPd		2.54	2.5				
			Pdh	kW	8	10.9				
			PERd	%	101.6	100				
			Tbiv	°C	-15					
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	1.4	3.3				
		Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,079	2,856			
				ηs (Seasonal space heating efficiency)	%	254	240			
				Prated at 2°C	kW	10	13			
			B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1			
COPd				3.75	3.55					
Pdh	kW			8.9	9.6					
PERd	%			150	142					
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1						
	COPd			6.27	6.18					
	Pdh		kW	6.7	8.4					
	PERd		%	250.8	247.2					
Tbiv (bivalent tempera- ture)	COPd			6.27	6.18					
	Pdh		kW	6.7	8.4					
	PERd		%	250.8	247.2					
	Tbiv	°C	7							
	D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1					
		COPd		8.31	8.56					
		Pdh	kW	6						
PERd	%	332.4	342.4							
 Space heating	Warm climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	PERd	%	250.8		247.2			
			Tbiv	°C	7					
		Tbiv (bivalent tempera- ture)	COPd		6.27	6.18				
			Pdh	kW	6.7	8.4				
		D Condition (12°CDB- B/11°CWB)	PERd	%	250.8	247.2				
			Cdh (Degradation heating)			1				
			COPd		8.31	8.56				
			Pdh	kW	6					
			PERd	%	332.4	342.4				

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

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

Technical specifications				EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Indoor unit				EPBX14AF9W	
Outdoor unit				EPBK12ARW1	EPBK14ARW1
Heating capacity	Nom.		kW		10.2 (1)
	Max.		kW	11.99 (2)	13.34 (2)
Cooling capacity	Nom.		kW	9.37 (3) / 6.74 (4)	11.3 (3) / 6.74 (4)
Power input	Heating	Nom.	kW		1.86 (1)
		Max.	kW	3.51 (5)	3.98 (5)
	Cooling	Nom.	kW	2.64 (3) / 1.12 (4)	3.45 (3) / 1.12 (4)
COP					5.50 (1)
EER				3.55 (3) / 6.04 (4)	3.28 (3) / 6.04 (4)
Pump	Nominal ESP	Heating unit	kPa		92.6

2 Specifications

2 - 1 Specifications

Technical specifications					EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	29.7	
General	Supplier/	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
	Manufacturer details	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			No	
		Low-temperature heat pump			No	
		Supplementary heater integrated			Yes	
	Water-to-water heat pump			No		
	LW(A) Sound power level (according to EN14825)	dB(A)		dB(A)	45	
	LW(A) Sound power level (according to EN14825)	dB(A)		dB(A)	52	
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product		
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	5,781	
	Other	Capacity control			Inverter	
		Pck (Crankcase heater mode)			0	
		Poff (Off mode)			0.022	
		Psb (Standby mode)			0.022	
		Pto (Thermostat off)			0.022	
	Integrated supplementary heater	Psup		kW	9	
		Type of energy input			Electrical	
 Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368	7,537
			ηs (Seasonal space heating efficiency)	%	159	150
			Prated at -10°C	kW	10.5	14
			SCOP		4.04	3.84
			Seasonal space heating eff. class			A+++

2 Specifications

2 - 1 Specifications

Technical specifications				EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Space heating Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1	
		COPd		2.63	2.52
		Pdh kW		9.4	12.4
		PERd %		105.2	100.8
		B Condition (2°CDB/1°CWB)		1	
		Cdh (Degradation heating)			
		COPd		3.92	3.52
		Pdh kW		5.5	8
		PERd %		156.8	140.8
		C Condition (7°CDB/6°CWB)		1	
		Cdh (Degradation heating)			
		COPd		5.18	5.38
		Pdh kW		3.9	5.1
		PERd %		207.2	215.2
		D Condition (12°CDB/11°CWB)		1	
		Cdh (Degradation heating)			
		COPd		6.52	6.5
		Pdh kW		7.7	
		PERd %		260.8	260
		Tol (temperature operating limit)			
		COPd		2.28	2.29
		Pdh kW		10.6	14.3
		PERd %		91.2	91.6
		TOL °C		-10	
		WTOL °C		55	
Cold climate water outlet 55°C	Rated heat output supplementary capacity	Psup (at Tdesign -10°C) kW		0	
		Tbiv (bivalent temperature)			
		COPd		2.28	2.29
		Pdh kW		10.6	14.3
		PERd %		91.2	91.6
		Tbiv °C		-10	
	General	Annual energy consumption		7,028	9,152
		ηs (Seasonal space heating efficiency) %		137	
		Prated at -22°C kW		10	13
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1	
		COPd		3.04	
		Pdh kW		8.4	
		PERd %		121.6	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1	
		COPd		4.07	3.95
		Pdh kW		3.8	4.7
		PERd %		162.8	158

2 Specifications

2 - 1 Specifications

Technical specifications				EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Space heating	Cold climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1	
			COPd	5.39	5.63
			Pdh kW	5.3	
			PERd %	215.6	225.2
			COPd	6.95	7.09
			Pdh kW	6.7	
		D Condition (12°CDB/11°CWB)	PERd %	278	283.6
			Tol (temperature operating limit)		
			COPd	1.64	1.67
			Pdh kW	9.3	10.7
			PERd %	65.6	66.8
			TOL °C	-22	
			WTOL °C	55	
		G Condition (-15°CDB/-)	COPd	2.09	2.2
			Pdh kW	8.4	10.7
			PERd %	83.6	88
			Tbiv (bivalent temperature)		
			COPd	2.09	2.2
			Pdh kW	8.4	10.7
			PERd %	83.6	88
			Tbiv °C	-15	
		Rated heat output supplementary capacity	Psup (at Tdesign -22°C) kW	0.7	2.3
	Warm climate water outlet 55°C	General	Annual energy consumption kWh	3,206	3,935
			ηs (Seasonal space heating efficiency) %	180	188
			Prated at 2°C kW	11	14.1
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1	
			COPd	2.61	2.43
			Pdh kW	9.1	10.8
			PERd %	104.4	97.2
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1	
			COPd	4.14	4.4
			Pdh kW	7.3	9.9
			PERd %	165.6	176
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1	
			COPd	6.27	6.31
			Pdh kW	6.1	5.7
			PERd %	250.8	252.4
		Tbiv (bivalent)	COPd	4.14	4.4
			Pdh kW	7.3	9.9

2 Specifications

2 - 1 Specifications

Technical specifications					EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	PERd Tbiv	% °C	165.6	176
					7	
Average climate water outlet 35°C	General	Annual energy consumption	kWh		4,020	4,999
		ηs (Seasonal space heating efficiency)	%		203	195
		Prated at -10°C	kW		10	12
		SCOP			5.14	4.96
		Seasonal space heating eff. class			A+++	
	A Condition (-7°CDB/-8°CWB)	COPd			3.69	3.45
		Pdh	kW		8.9	10.9
		PERd	%		147.6	138
	B Condition (2°CDB/-8°CWB)	Cdh (Degradation heating)			1	
		COPd			4.85	4.58
		Pdh	kW		6.3	6.7
		PERd	%		194	183.2
	C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1	
		COPd			6.63	6.67
		Pdh	kW		8	
		PERd	%		265.2	266.8
	D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)			1	
		COPd			8.48	8.42
		Pdh	kW		8.6	
		PERd	%		339.2	336.8
	Tol (temperature operating limit)	COPd			3.25	3.18
		Pdh	kW		9.8	12.5
		PERd	%		130	127.2
		TOL	°C		-10	
		WTOL	°C		35	
	G Condition (-15°CDB/-)	PERd	%		0	
	Tbiv (bivalent temperature)	COPd			3.25	3.18
		Pdh	kW		9.8	12.5
		PERd	%		130	127.2
		Tbiv	°C		-10	
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0	
Cold climate water outlet 35°C	General	Annual energy consumption	kWh		5,383	6,942
		ηs (Seasonal space heating efficiency)	%		180	182
		Prated at -22°C	kW		10	13
	A Condition (-7°CDB/-8°CWB)	COPd			4.03	

2 Specifications

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Technical specifications				EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Space heating	Cold climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW	7.9
			PERd	%	161.2
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1
			COPd	5.47	5.6
			Pdh	kW	4.2
		C Condition (7°CDB/-6°CWB)	PERd	%	218.8
			Cdh (Degradation heating)		1
			COPd	7.27	7.49
		D Condition (12°CDB/-11°CWB)	Pdh	kW	5.6
			PERd	%	290.8
			Cdh (Degradation heating)		1
		Tol (temperature operating limit)	COPd	2.1	2.05
			Pdh	kW	8.6
			PERd	%	84
		G Condition (-15°CDB/-)	TOL	°C	-22
			WTOL	°C	35
			COPd	2.54	2.5
		Tbiv (bivalent temperature)	Pdh	kW	8
			PERd	%	101.6
			Tbiv	°C	-15
		Rated heat output supplementary capacity		1.4	3.3
Space heating	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,079
			ηs (Seasonal space heating efficiency)	%	254
			Prated at 2°C	kW	10
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1
			COPd	3.75	3.55
			Pdh	kW	8.9
		C Condition (7°CDB/-6°CWB)	PERd	%	150
			Cdh (Degradation heating)		1
			COPd	6.27	6.18
		D Condition (12°CDB/-11°CWB)	Pdh	kW	6.7
			PERd	%	250.8
			Cdh (Degradation heating)		7
		Tbiv (bivalent temperature)	COPd	8.31	8.56
			Pdh	kW	6
			PERd	%	332.4

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

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

Technical specifications				EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1
Indoor unit				EPSX14P30AF	EPSX14P50AF	EPSX14P30AF	EPSX14P50AF
Outdoor unit				EPSK12ARW1		EPSK14ARW1	
Heating capacity	Nom.	kW	10.2 (1)		13.34 (2)		
	Max.	kW	11.99 (2)		11.3 (3) / 6.74 (4)		
Cooling capacity	Nom.	kW	9.37 (3) / 6.74 (4)		11.3 (3) / 6.74 (4)		
Power input	Heating	Nom.	kW	1.86 (1)		3.98 (5)	
		Max.	kW	3.51 (5)		3.45 (3) / 1.12 (4)	
	Cooling	Nom.	kW	2.64 (3) / 1.12 (4)		3.45 (3) / 1.12 (4)	
		Domestic hot water from 10°C to 50°C	Nom.	kWh	3.1	4.72	3.1

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Technical specifications					EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1	
Heat up time from 10°C to 50°C					hr	1h 43min	3h 14min	1h 43min	3h 14min
COP						5.50 (1)			
EER						3.55 (3) / 6.04 (4)		3.28 (3) / 6.04 (4)	
Pump	Nominal ESP unit	Heating		kPa		62.1			
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min		29.7			
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			No				
		Low-temperature heat pump			No				
		Supplementary heater integrated			Yes				
		Water-to-water heat pump			No				
	LW(A) Sound power level (according to EN14825)	dB(A)		dBA	49				
LW(A) Sound power level (according to EN14825)					dB(A)	52			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product				
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	5,781				
	Other	Capacity control			Inverter				
		Pck (Crankcase heater mode)			0				
		Poff (Off mode)			0.022				
		Psb (Standby mode)			0.022				
		Pto (Thermostat off)			0.022				
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup		kW	9				
		Type of energy input			Electrical				
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)			kWh	924	1,301	924	1,301
		COPdhw				2.77	3.22	2.77	3.22
Domestic hot water heating	Average climate	Heat up time				1h 38min	3h 03min	1h 38min	3h 03min
		Mixed water at 40°C			l	155.4	236.1	155.4	236.1
		ηwh (water heating efficiency)			%	110	128	110	128
		Qelec (Daily electricity consumption)			kWh	4.209	5.922	4.209	5.922
		Reference hot water temperature			°C	45.2	44.3	45.2	44.3
		Stand-by power input			W	41.6	43.4	41.6	43.4
		Water heating energy efficiency class				A	A+	A	A+
	Cold climate	AEC (Annual electricity consumption)			kWh	1,154	1,594	1,154	1,594
		COPdhw				2.22	2.63	2.22	2.63
		Heat up time				2h 09min	3h 47min	2h 09min	3h 47min
		Mixed water at 40°C			l	155.4	236.1	155.4	236.1
		ηwh (water heating efficiency)			%	88	105	88	105
		Qelec (Daily electricity consumption)			kWh	5.255	7.261	5.255	7.261
		Reference hot water temperature			°C	45.2	44.3	45.2	44.3
		Stand-by power input			W	44.3	50.5	44.3	50.5
	Warm climate	AEC (Annual electricity consumption)			kWh	812	1,162	812	1,162
		COPdhw				3.15	3.6	3.15	3.6
		Heat up time				1h 33min	3h 00min	1h 33min	3h 00min
		Mixed water at 40°C			l	155.4	236.1	155.4	236.1
		ηwh (water heating efficiency)			%	126	144	126	144
		Qelec (Daily electricity consumption)			kWh	3.697	5.292	3.697	5.292
		Reference hot water temperature			°C	45.2	44.3	45.2	44.3
		Stand-by power input			W	36.1	41.1	36.1	41.1

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Technical specifications				EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368		7,537
			ηs (Seasonal space heating efficiency)	%	159		150
			Prated at -10°C	kW	10.5		14
			SCOP		4.04		3.84
			Seasonal space heating eff. class			A+++	
			Cdh (Degradation heating)			1	
			A Condition (-7°CDB/-8°CWB)				
			COPd		2.63		2.52
			Pdh	kW	9.4		12.4
			PERd	%	105.2		100.8
			B Condition (2°CDB/1°CWB)				
			Cdh (Degradation heating)			1	
			COPd		3.92		3.52
			Pdh	kW	5.5		8
			PERd	%	156.8		140.8
			C Condition (7°CDB/6°CWB)				
			Cdh (Degradation heating)			1	
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd		5.18		5.38
			Pdh	kW	3.9		5.1
			PERd	%	207.2		215.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1	
			COPd		6.52		6.5
			Pdh	kW		7.7	
			PERd	%	260.8		260
		Tol (temperature operating limit)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
		TOL °C	TOL	°C		-10	
			WTOL	°C		55	
			Rated heat output supplementary capacity			0	
		Tbiv (bivalent temperature)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
		Tbiv °C	Tbiv	°C		-10	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		9,152
			ηs (Seasonal space heating efficiency)	%		137	
			Prated at -22°C	kW	10		13
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1	
			COPd			3.04	
			Pdh	kW		8.4	
			PERd	%		121.6	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1	
			COPd		4.07		3.95
			Pdh	kW	3.8		4.7
			PERd	%	162.8		158
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1	
			COPd		5.39		5.63
			Pdh	kW		5.3	
			PERd	%	215.6		225.2
		D Condition (12°CDB/11°CWB)	COPd		6.95		7.09
			Pdh	kW		6.7	
			PERd	%	278		283.6
		Tol (temperature)	COPd		1.64		1.67
			Pdh	kW	9.3		10.7

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Technical specifications					EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1
Space heating	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd	%	65.6		66.8	
			TOL	°C		-22		
			WTOL	°C		55		
		G Condition (-15°CDB/-)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
		Tbiv (bivalent tempera- ture)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
			Tbiv	°C		-15		
	Warm climate water outlet 55°C	Rated heat output sup- plementary capacity		Psup (at Tdesign -22°C) kW	0.7		2.3	
		General	Annual energy consumption	kWh	3,206		3,935	
			ηs (Seasonal space heating efficiency)	%	180		188	
			Prated at 2°C	kW	11		14.1	
		B Condition (2°CDB- B/11°CWB)	Cdh (Degradation heating)			1		
			COPd		2.61		2.43	
			Pdh	kW	9.1		10.8	
			PERd	%	104.4		97.2	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1		
			COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1		
			COPd		6.27		6.31	
			Pdh	kW	6.1		5.7	
			PERd	%	250.8		252.4	
		Tbiv (bivalent tempera- ture)	COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
			Tbiv	°C		7		
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	4,020		4,999	
			ηs (Seasonal space heating efficiency)	%	203		195	
			Prated at -10°C	kW	10		12	
			SCOP		5.14		4.96	
			Seasonal space heating eff. class			A+++		
		A Condition (-7°CDB-	COPd		3.69		3.45	
			Pdh	kW	8.9		10.9	

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Technical specifications					EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	147.6		138	
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)			1		
			COPd		4.85		4.58	
			Pdh	kW	6.3		6.7	
			PERd	%	194		183.2	
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1		
			COPd		6.63		6.67	
			Pdh	kW		8		
			PERd	%	265.2		266.8	
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)			1		
			COPd		8.48		8.42	
			Pdh	kW		8.6		
			PERd	%	339.2		336.8	
		Tol (temperature operating limit)	COPd		3.25		3.18	
			Pdh	kW	9.8		12.5	
			PERd	%	130		127.2	
			TOL	°C		-10		
			WTOL	°C		35		
		G Condition (-15°CDB/-)	PERd	%		0		
		Tbiv (bivalent temperature)	COPd		3.25		3.18	
			Pdh	kW	9.8		12.5	
			PERd	%	130		127.2	
			Tbiv	°C		-10		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0		
		Cold climate water outlet 35°C	General	Annual energy consumption	5,383		6,942	
				ns (Seasonal space heating efficiency)	180		182	
				Prated at -22°C	10		13	
			A Condition (-7°CDB/-8°CWB)	COPd		4.03		
				Pdh	kW	7.9		
				PERd	%	161.2		
			B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1		
				COPd	5.47		5.6	
				Pdh	kW	4.2	4.8	
				PERd	%	218.8	224	
			C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1		
				COPd	7.27		7.49	
				Pdh	kW	5.6	6.6	

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Technical specifications					EPSX14P30A + EPSK12AW1	EPSX14P50A + EPSK12AW1	EPSX14P30A + EPSK14AW1	EPSX14P50A + EPSK14AW1
	Space heating Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	PERd	%	290.8		299.6	
			Cdh (Degradation heating)			1		
			COPd			8.73		
			Pdh		kW	7.7		
			PERd		%	349.2		
		Tol (tem- perature operating limit)	COPd			2.1	2.05	
			Pdh		kW	8.6	9.7	
			PERd		%	84	82	
			TOL		°C	-22		
			WTOL		°C	35		
		G Condition (-15°CDB/-)	COPd			2.54	2.5	
			Pdh		kW	8	10.9	
			PERd		%	101.6	100	
		Tbiv (bivalent tempera- ture)	COPd			2.54	2.5	
			Pdh		kW	8	10.9	
			PERd		%	101.6	100	
			Tbiv		°C	-15		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)		kW	1.4	3.3	
	Warm climate water outlet 35°C	General	Annual energy consumption		kWh	2,079	2,856	
			ηs (Seasonal space heating efficiency)		%	254	240	
			Prated at 2°C		kW	10	13	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1		
			COPd			3.75	3.55	
			Pdh		kW	8.9	9.6	
			PERd		%	150	142	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1		
			COPd			6.27	6.18	
			Pdh		kW	6.7	8.4	
			PERd		%	250.8	247.2	
		Tbiv (bivalent tempera- ture)	COPd			6.27	6.18	
			Pdh		kW	6.7	8.4	
			PERd		%	250.8	247.2	
			Tbiv		°C	7		
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1		
			COPd			8.31	8.56	
			Pdh		kW	6		
			PERd		%	332.4	342.4	

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

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

Technical specifications					EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1	
Indoor unit					EPSXB14P30AF	EPSXB14P50AF	EPSXB14P30AF	EPSXB14P50AF	
Outdoor unit					EPSK12ARW1		EPSK14ARW1		
Heating capacity	Nom.			kW	10.2 (1)				
	Max.			kW	11.99 (2)				
Cooling capacity	Nom.			kW	9.37 (3) / 6.74 (4)		11.3 (3) / 6.74 (4)		
Power input	Heating	Nom.		kW	1.86 (1)				
		Max.		kW	3.51 (5)				
	Cooling	Nom.		kW	2.64 (3) / 1.12 (4)		3.45 (3) / 1.12 (4)		
		Domestic hot water from 10°C to 50°C	Nom.		kWh	3.1	4.72	3.1	4.72
	Heat up time from 10°C to 50°C				hr	1h 43min	3h 14min	1h 43min	3h 14min
	COP					5.50 (1)			
EER					3.55 (3) / 6.04 (4)		3.28 (3) / 6.04 (4)		
Pump	Nominal ESP unit	Heating		kPa	62.1				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	29.7				

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Technical specifications			EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1
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	No			
		Low-temperature heat pump	No			
		Supplementary heater integrated	Yes			
		Water-to-water heat pump	No			
	LW(A) Sound power level (according to EN14825)	dB(A) dBA	49			
	LW(A) Sound power level (according to EN14825)	dB(A) dBA	52			
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product			
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h 5,781			
		Capacity control	Inverter			
	Other	Pck (Crankcase heater mode)	kW 0			
		Poff (Off mode)	kW 0.022			
		Psb (Standby mode)	kW 0.022			
		Pto (Thermostat off)	kW 0.022			
Domestic hot water heating	General	Declared load profile	L	XL	L	XL
Space heating general	Integrated supplementary heater	Psup	kW 9			
		Type of energy input	Electrical			
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh 924 1,301 924 1,301			
		COPdhw	2.77 3.22 2.77 3.22			
Domestic hot water heating	Average climate	Heat up time	1h 38min 3h 03min 1h 38min 3h 03min			
		Mixed water at 40°C	l 155.4 236.1 155.4 236.1			
		η _{wh} (water heating efficiency)	% 110 128 110 128			
		Qelec (Daily electricity consumption)	kWh 4.209 5.922 4.209 5.922			
		Reference hot water temperature	°C 45.2 44.3 45.2 44.3			
		Stand-by power input	W 41.6 43.4 41.6 43.4			
		Water heating energy efficiency class	A A+ A A+			
		AEC (Annual electricity consumption)	kWh 1,154 1,594 1,154 1,594			
	Cold climate	COPdhw	2.22 2.63 2.22 2.63			
		Heat up time	2h 09min 3h 47min 2h 09min 3h 47min			
		Mixed water at 40°C	l 155.4 236.1 155.4 236.1			
		η _{wh} (water heating efficiency)	% 88 105 88 105			
		Qelec (Daily electricity consumption)	kWh 5.255 7.261 5.255 7.261			
		Reference hot water temperature	°C 45.2 44.3 45.2 44.3			
		Stand-by power input	W 44.3 50.5 44.3 50.5			
		AEC (Annual electricity consumption)	kWh 812 1,162 812 1,162			
	Warm climate	COPdhw	3.15 3.6 3.15 3.6			
		Heat up time	1h 33min 3h 00min 1h 33min 3h 00min			
		Mixed water at 40°C	l 155.4 236.1 155.4 236.1			
		η _{wh} (water heating efficiency)	% 126 144 126 144			
		Qelec (Daily electricity consumption)	kWh 3.697 5.292 3.697 5.292			
		Reference hot water temperature	°C 45.2 44.3 45.2 44.3			
		Stand-by power input	W 36.1 41.1 36.1 41.1			

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Technical specifications				EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368		7,537
			ηs (Seasonal space heating efficiency)	%	159		150
			Prated at -10°C	kW	10.5		14
			SCOP		4.04		3.84
			Seasonal space heating eff. class			A+++	
			Cdh (Degradation heating)			1	
			A Condition (-7°CDB/-8°CWB)				
			COPd		2.63		2.52
			Pdh	kW	9.4		12.4
			PERd	%	105.2		100.8
			B Condition (2°CDB/1°CWB)				
			Cdh (Degradation heating)			1	
			COPd		3.92		3.52
			Pdh	kW	5.5		8
			PERd	%	156.8		140.8
			C Condition (7°CDB/6°CWB)				
			Cdh (Degradation heating)			1	
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd		5.18		5.38
			Pdh	kW	3.9		5.1
			PERd	%	207.2		215.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1	
			COPd		6.52		6.5
			Pdh	kW		7.7	
			PERd	%	260.8		260
		Tol (temperature operating limit)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			TOL	°C		-10	
			WTOL	°C		55	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0	
		Tbiv (bivalent temperature)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			Tbiv	°C		-10	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		9,152
			ηs (Seasonal space heating efficiency)	%		137	
			Prated at -22°C	kW	10		13
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1	
			COPd			3.04	
			Pdh	kW		8.4	
			PERd	%		121.6	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1	
			COPd		4.07		3.95
			Pdh	kW	3.8		4.7
			PERd	%	162.8		158
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1	
			COPd		5.39		5.63
			Pdh	kW		5.3	
			PERd	%	215.6		225.2
		D Condition (12°CDB/11°CWB)	COPd		6.95		7.09
			Pdh	kW		6.7	
			PERd	%	278		283.6
		Tol (temperature)	COPd		1.64		1.67
			Pdh	kW	9.3		10.7

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Technical specifications					EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd	%	65.6		66.8	
			TOL	°C		-22		
			WTOL	°C		55		
		G Condition (-15°CDB/-)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
		Tbiv (bivalent tempera- ture)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
			Tbiv	°C		-15		
	Warm climate water outlet 55°C	Rated heat output sup- plementary capacity		Psup (at Tdesign -22°C) kW	0.7		2.3	
		General	Annual energy consumption	kWh	3,206		3,935	
			ηs (Seasonal space heating efficiency)	%	180		188	
			Prated at 2°C	kW	11		14.1	
		B Condition (2°CDB- B/11°CWB)	Cdh (Degradation heating)			1		
			COPd		2.61		2.43	
			Pdh	kW	9.1		10.8	
			PERd	%	104.4		97.2	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1		
			COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1		
			COPd		6.27		6.31	
			Pdh	kW	6.1		5.7	
			PERd	%	250.8		252.4	
		Tbiv (bivalent tempera- ture)	COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
			Tbiv	°C		7		
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	4,020		4,999	
			ηs (Seasonal space heating efficiency)	%	203		195	
			Prated at -10°C	kW	10		12	
			SCOP		5.14		4.96	
			Seasonal space heating eff. class			A+++		
		A Condition (-7°CDB-)	COPd		3.69		3.45	
			Pdh	kW	8.9		10.9	

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Technical specifications				EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1
Space heating Average climate water outlet 35°C	A Condition (-7°CDB- B/-8°CWB) B Condition (2°CDB- B/1°CWB) C Condition (7°CDB- B/6°CWB) D Condition (12°CDB- B/11°CWB) Tol (tem- perature operating limit) G Condition (-15°CDB/-) Tbiv (bivalent tempera- ture) Rated heat output sup- plementary capacity Cold climate water outlet 35°C	PERd	%	147.6		138	
		Cdh (Degradation heating)			1		
		COPd		4.85		4.58	
		Pdh	kW	6.3		6.7	
		PERd	%	194		183.2	
		Cdh (Degradation heating)			1		
		COPd		6.63		6.67	
		Pdh	kW		8		
		PERd	%	265.2		266.8	
		Cdh (Degradation heating)			1		
		COPd		8.48		8.42	
		Pdh	kW		8.6		
		PERd	%	339.2		336.8	
		COPd		3.25		3.18	
		Pdh	kW	9.8		12.5	
		PERd	%	130		127.2	
		TOL	°C		-10		
		WTOL	°C		35		
		PERd	%		0		
		COPd		3.25		3.18	
		Pdh	kW	9.8		12.5	
		PERd	%	130		127.2	
		Tbiv	°C		-10		
		Psup (at Tdesign -10°C)	kW		0		
		General	Annual energy consumption	5,383		6,942	
			ns (Seasonal space heating efficiency)	180		182	
			Prated at -22°C	10		13	
		A Condition	COPd		4.03		
			Pdh	kW	7.9		
			PERd	%	161.2		
		B Condition	Cdh (Degradation heating)		1		
			COPd	5.47		5.6	
			Pdh	kW	4.2	4.8	
			PERd	%	218.8	224	
		C Condition	Cdh (Degradation heating)		1		
			COPd	7.27		7.49	
			Pdh	kW	5.6	6.6	

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Technical specifications					EPSXB14P30A + EPSK12AW1	EPSXB14P50A + EPSK12AW1	EPSXB14P30A + EPSK14AW1	EPSXB14P50A + EPSK14AW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	PERd	%	290.8		299.6	
			Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh		7.7			
			PERd		349.2			
		Tol (tem- perature operating limit)	COPd		2.1		2.05	
			Pdh		8.6		9.7	
			PERd		84		82	
			TOL		-22			
			WTOL		35			
		G Condition (-15°CDB/-)	COPd		2.54		2.5	
			Pdh		8		10.9	
			PERd		101.6		100	
	Warm climate water outlet 35°C	Tbiv (bivalent tempera- ture)	COPd		2.54		2.5	
			Pdh		8		10.9	
			PERd		101.6		100	
			Tbiv		-15			
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)		1.4		3.3	
		General	Annual energy consumption		2,079		2,856	
			ηs (Seasonal space heating efficiency)		254		240	
			Prated at 2°C		10		13	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh		8.9		9.6	
			PERd		150		142	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.27		6.18	
			Pdh		6.7		8.4	
			PERd		250.8		247.2	
		Tbiv (bivalent tempera- ture)	COPd		6.27		6.18	
			Pdh		6.7		8.4	
			PERd		250.8		247.2	
			Tbiv		7			
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.31		8.56	
			Pdh		6			
			PERd		332.4		342.4	

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

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

Technical specifications					EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1		
Indoor unit					EPVX14S18AJ4V	EPVX14S23AJ4V	EPVX14S18AJ4V	EPVX14S23AJ4V		
Outdoor unit					EPSK12ARW1		EPSK14ARW1			
Heating capacity	Nom.			kW	10.2 (1)					
	Max.			kW	11.99 (2)			13.34 (2)		
Cooling capacity	Nom.			kW	9.37 (3) / 6.74 (4)			11.3 (3) / 6.74 (4)		
Power input	Heating	Nom.		kW	1.86 (1)					
		Max.		kW	3.51 (5)			3.98 (5)		
	Cooling	Nom.		kW	2.64 (3) / 1.12 (4)			3.45 (3) / 1.12 (4)		
		Domestic hot water from 10°C to 50°C	Nom.		kWh	2.24	2.54	2.24	2.54	
		Heat up time from 10°C to 50°C				hr	1h 17min	1h 30min	1h 17min	1h 30min
		COP					5.50 (1)			
EER					3.55 (3) / 6.04 (4)			3.28 (3) / 6.04 (4)		
Pump	Nominal ESP unit	Heating		kPa	73.7					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	29.7					

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Technical specifications			EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1
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	No			
		Low-temperature heat pump	No			
		Supplementary heater integrated	Yes			
		Water-to-water heat pump	No			
	LW(A) Sound power level (according to EN14825)	dB(A)	45			
	LW(A) Sound power level (according to EN14825)	dB(A)	52			
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product			
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h			
			5,781			
	Other	Capacity control	Inverter			
		Pck (Crankcase heater mode)	kW			
		Poff (Off mode)	kW			
		Psb (Standby mode)	kW			
Domestic hot water heating	General	Pto (Thermostat off)	kW			
		Declared load profile	L			
Space heating general	Integrated supplementary heater	Psup	kW			
		Type of energy input	Electrical			
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh			
		COPdhw	3.03			
Domestic hot water heating	Average climate	Heat up time	1h 08min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			
		Water heating energy efficiency class	A+			
		AEC (Annual electricity consumption)	kWh			
	Cold climate	COPdhw	2.37			
		Heat up time	1h 21min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			
		Water heating energy efficiency class	A+			
	Warm climate	AEC (Annual electricity consumption)	kWh			
		COPdhw	3.28			
		Heat up time	1h 10min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			

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Technical specifications				EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368		7,537
			ηs (Seasonal space heating efficiency)	%	159		150
			Prated at -10°C	kW	10.5		14
			SCOP		4.04		3.84
			Seasonal space heating eff. class		A+++		
			Cdh (Degradation heating)		1		
			A Condition (-7°CDB/-8°CWB)	COPd	2.63		2.52
				Pdh	9.4		12.4
				PERd	105.2		100.8
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1		
				COPd	3.92		3.52
				Pdh	5.5		8
				PERd	156.8		140.8
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1		
				COPd	5.18		5.38
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Pdh	kW	3.9		5.1
			PERd	%	207.2		215.2
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1		
			COPd		6.52		6.5
			Pdh	kW		7.7	
			PERd	%	260.8		260
		Tol (temperature operating limit)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			TOL	°C		-10	
			WTOL	°C		55	
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	0		
		Tbiv (bivalent temperature)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			Tbiv	°C		-10	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		9,152
			ηs (Seasonal space heating efficiency)	%	137		
			Prated at -22°C	kW	10		13
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1		
			COPd		3.04		
			Pdh	kW	8.4		
		B Condition (2°CDB/1°CWB)	PERd	%	121.6		
			Cdh (Degradation heating)		1		
			COPd		4.07		3.95
			Pdh	kW	3.8		4.7
			PERd	%	162.8		158
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1		
			COPd		5.39		5.63
			Pdh	kW		5.3	
			PERd	%	215.6		225.2
			D Condition (12°CDB/11°CWB)	COPd	6.95		7.09
			Pdh	kW		6.7	
			PERd	%	278		283.6
		Tol (temperature)	COPd		1.64		1.67
			Pdh	kW	9.3		10.7

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Technical specifications					EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1
 Space heating	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd	%	65.6		66.8	
			TOL	°C	-22			
			WTOL	°C	55			
		G Condition (-15°CDB/-)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
		Tbiv (bivalent tempera- ture)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
		Tbiv	°C	-15				
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	0.7		2.3	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	3,206		3,935	
			ηs (Seasonal space heating efficiency)	%	180		188	
			Prated at 2°C	kW	11		14.1	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		2.61		2.43	
			Pdh	kW	9.1		10.8	
		PERd	%	104.4		97.2		
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
		PERd	%	165.6		176		
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		6.27		6.31	
			Pdh	kW	6.1		5.7	
		PERd	%	250.8		252.4		
		Tbiv (bivalent tempera- ture)	COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
		Tbiv	°C	7				
	Average climate water outlet 35°C	General	Annual energy consumption	kWh	4,020		4,999	
			ηs (Seasonal space heating efficiency)	%	203		195	
			Prated at -10°C	kW	10		12	
			SCOP		5.14		4.96	
			Seasonal space heating eff. class		A+++			
		A Condition (-7°CDB-	COPd		3.69		3.45	
			Pdh	kW	8.9		10.9	

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Technical specifications					EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%	147.6		138	
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)			1		
			COPd		4.85		4.58	
			Pdh	kW	6.3		6.7	
			PERd	%	194		183.2	
		C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)			1		
			COPd		6.63		6.67	
			Pdh	kW		8		
			PERd	%	265.2		266.8	
		D Condition (12°CDB/-11°CWB)	Cdh (Degradation heating)			1		
			COPd		8.48		8.42	
			Pdh	kW		8.6		
			PERd	%	339.2		336.8	
		Tol (temperature operating limit)	COPd		3.25		3.18	
			Pdh	kW	9.8		12.5	
			PERd	%	130		127.2	
			TOL	°C		-10		
			WTOL	°C		35		
		G Condition (-15°CDB/-)	PERd	%		0		
		Tbiv (bivalent temperature)	COPd		3.25		3.18	
			Pdh	kW	9.8		12.5	
			PERd	%	130		127.2	
			Tbiv	°C		-10		
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0		
		Cold climate water outlet 35°C	General	Annual energy consumption	5,383		6,942	
				ns (Seasonal space heating efficiency)	180		182	
				Prated at -22°C	10		13	
			A Condition (-7°CDB/-8°CWB)	COPd		4.03		
				Pdh	kW	7.9		
				PERd	%	161.2		
			B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1		
				COPd	5.47		5.6	
				Pdh	kW	4.2	4.8	
				PERd	%	218.8	224	
			C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)		1		
				COPd	7.27		7.49	
				Pdh	kW	5.6	6.6	

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Technical specifications					EPVX14S18A4V + EPSK12AW1	EPVX14S23A4V + EPSK12AW1	EPVX14S18A4V + EPSK14AW1	EPVX14S23A4V + EPSK14AW1
Space heating Cold climate water outlet 35°C	C Condition	PERd	%		290.8		299.6	
	(7°CDB- B/6°CWB)							
	D Condition	Cdh (Degradation heating)				1		
	(12°CDB- B/11°CWB)					8.73		
		COPd						
		Pdh	kW			7.7		
		PERd	%			349.2		
	Tol (tem- perature operating limit)	COPd			2.1		2.05	
		Pdh	kW		8.6		9.7	
		PERd	%		84		82	
		TOL	°C			-22		
		WTOL	°C			35		
	G Condition	COPd			2.54		2.5	
	(-15°CDB/-)							
		Pdh	kW		8		10.9	
		PERd	%		101.6		100	
	Tbiv	COPd			2.54		2.5	
	(bivalent tempera- ture)							
		Pdh	kW		8		10.9	
		PERd	%		101.6		100	
		Tbiv	°C			-15		
	Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW		1.4		3.3	
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,079		2,856	
			ηs (Seasonal space heating efficiency)	%	254		240	
			Prated at 2°C	kW	10		13	
		B Condition	Cdh (Degradation heating)			1		
	(2°CDB- B/1°CWB)							
		COPd			3.75		3.55	
		Pdh	kW		8.9		9.6	
		PERd	%		150		142	
		C Condition	Cdh (Degradation heating)			1		
	(7°CDB- B/6°CWB)							
		COPd			6.27		6.18	
		Pdh	kW		6.7		8.4	
		PERd	%		250.8		247.2	
	Tbiv	COPd			6.27		6.18	
	(bivalent tempera- ture)							
		Pdh	kW		6.7		8.4	
		PERd	%		250.8		247.2	
		Tbiv	°C			7		
		D Condition	Cdh (Degradation heating)			1		
	(12°CDB- B/11°CWB)							
		COPd			8.31		8.56	
		Pdh	kW			6		
		PERd	%		332.4		342.4	

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

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

Technical specifications					EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
Indoor unit					EPVX14S18AJ9W	EPVX14S23AJ9W	EPVX14S18AJ9W	EPVX14S23AJ9W
Outdoor unit					EPSK12ARW1		EPSK14ARW1	
Heating capacity	Nom.			kW	10.2 (1)			
	Max.			kW	11.99 (2)			
Cooling capacity	Nom.			kW	9.37 (3) / 6.74 (4)		11.3 (3) / 6.74 (4)	
Power input	Heating	Nom.		kW	1.86 (1)			
		Max.		kW	3.51 (5)		3.98 (5)	
	Cooling	Nom.		kW	2.64 (3) / 1.12 (4)		3.45 (3) / 1.12 (4)	
	Domestic hot water from 10°C to 50°C	Nom.		kWh	2.24	2.54	2.24	2.54
	Heat up time from 10°C to 50°C			hr	1h 17min	1h 30min	1h 17min	1h 30min
COP					5.50 (1)			
EER					3.55 (3) / 6.04 (4)			
Pump	Nominal ESP unit	Heating		kPa	73.7			
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	29.7			

2 Specifications

2 - 1 Specifications

2

Technical specifications			EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
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	No			
		Low-temperature heat pump	No			
		Supplementary heater integrated	Yes			
		Water-to-water heat pump	No			
	LW(A) Sound power level (according to EN14825)	dB(A)	45			
	LW(A) Sound power level (according to EN14825)	dB(A)	52			
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825. Ecodesign sound level is not representing the maximum sound level of this product			
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h			
			5,781			
	Other	Capacity control	Inverter			
		Pck (Crankcase heater mode)	kW			
		Poff (Off mode)	kW			
		Psb (Standby mode)	kW			
Domestic hot water heating	General	Pto (Thermostat off)	kW			
		Declared load profile	L			
Space heating general	Integrated supplementary heater	Psup	kW			
		Type of energy input	Electrical			
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh			
		COPdhw	3.03			
Domestic hot water heating	Average climate	Heat up time	1h 08min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			
		Water heating energy efficiency class	A+			
		AEC (Annual electricity consumption)	kWh			
	Cold climate	COPdhw	2.37			
		Heat up time	1h 21min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			
		Water heating energy efficiency class	A+			
	Warm climate	AEC (Annual electricity consumption)	kWh			
		COPdhw	3.28			
		Heat up time	1h 10min			
		Mixed water at 40°C	I			
		η _{wh} (water heating efficiency)	%			
		Q _{elec} (Daily electricity consumption)	kWh			
		Reference hot water temperature	°C			
		Stand-by power input	W			

2 Specifications

2 - 1 Specifications

Technical specifications				EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	5,368		7,537
			ηs (Seasonal space heating efficiency)	%	159		150
			Prated at -10°C	kW	10.5		14
			SCOP		4.04		3.84
			Seasonal space heating eff. class		A+++		
			Cdh (Degradation heating)		1		
			A Condition (-7°CDB/-8°CWB)				
			COPd		2.63		2.52
			Pdh	kW	9.4		12.4
			PERd	%	105.2		100.8
			B Condition (2°CDB/1°CWB)				
			Cdh (Degradation heating)		1		
			COPd		3.92		3.52
			Pdh	kW	5.5		8
			PERd	%	156.8		140.8
			C Condition (7°CDB/6°CWB)				
			Cdh (Degradation heating)		1		
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd		5.18		5.38
			Pdh	kW	3.9		5.1
			PERd	%	207.2		215.2
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1		
			COPd		6.52		6.5
			Pdh	kW		7.7	
			PERd	%	260.8		260
		Tol (temperature operating limit)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			TOL	°C		-10	
			WTOL	°C		55	
		Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW		0	
		Tbiv (bivalent temperature)	COPd		2.28		2.29
			Pdh	kW	10.6		14.3
			PERd	%	91.2		91.6
			Tbiv	°C		-10	
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh	7,028		9,152
			ηs (Seasonal space heating efficiency)	%		137	
			Prated at -22°C	kW	10		13
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1		
			COPd			3.04	
			Pdh	kW		8.4	
			PERd	%		121.6	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1		
			COPd		4.07		3.95
			Pdh	kW	3.8		4.7
			PERd	%	162.8		158
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1		
			COPd		5.39		5.63
			Pdh	kW		5.3	
			PERd	%	215.6		225.2
		D Condition (12°CDB/11°CWB)	COPd		6.95		7.09
			Pdh	kW		6.7	
			PERd	%	278		283.6
		Tol (temperature)	COPd		1.64		1.67
			Pdh	kW	9.3		10.7

2 Specifications

2 - 1 Specifications

Technical specifications					EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
2 Space heating	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd	%	65.6		66.8	
			TOL	°C			-22	
			WTOL	°C			55	
		G Condition (-15°CDB/-)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
		Tbiv (bivalent tempera- ture)	COPd		2.09		2.2	
			Pdh	kW	8.4		10.7	
			PERd	%	83.6		88	
			Tbiv	°C			-15	
	Warm climate water outlet 55°C	Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	0.7		2.3	
		General	Annual energy consumption	kWh	3,206		3,935	
			ηs (Seasonal space heating efficiency)	%	180		188	
			Prated at 2°C	kW	11		14.1	
		B Condition (2°CDB- B/11°CWB)	Cdh (Degradation heating)				1	
			COPd		2.61		2.43	
			Pdh	kW	9.1		10.8	
			PERd	%	104.4		97.2	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)				1	
			COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)				1	
			COPd		6.27		6.31	
			Pdh	kW	6.1		5.7	
			PERd	%	250.8		252.4	
		Tbiv (bivalent tempera- ture)	COPd		4.14		4.4	
			Pdh	kW	7.3		9.9	
			PERd	%	165.6		176	
			Tbiv	°C			7	
Average climate water outlet 35°C	General	Annual energy consumption	kWh		4,020		4,999	
		ηs (Seasonal space heating efficiency)	%		203		195	
		Prated at -10°C	kW		10		12	
		SCOP			5.14		4.96	
		Seasonal space heating eff. class					A+++	
	A Condition (-7°CDB-)	COPd			3.69		3.45	
		Pdh	kW		8.9		10.9	

2 Specifications

2 - 1 Specifications

Technical specifications				EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB) B Condition (2°CDB/-1°CWB) C Condition (7°CDB/-6°CWB) D Condition (12°CDB/-11°CWB) Tol (temperature operating limit) G Condition (-15°CDB/-) Tbiv (bivalent temperature) Rated heat output supplementary capacity Cold climate water outlet 35°C	PERd	%	147.6		138	
		Cdh (Degradation heating)			1		
		COPd		4.85		4.58	
		Pdh	kW	6.3		6.7	
		PERd	%	194		183.2	
		Cdh (Degradation heating)			1		
		COPd		6.63		6.67	
		Pdh	kW		8		
		PERd	%	265.2		266.8	
		Cdh (Degradation heating)			1		
		COPd		8.48		8.42	
		Pdh	kW		8.6		
		PERd	%	339.2		336.8	
		COPd		3.25		3.18	
		Pdh	kW	9.8		12.5	
		PERd	%	130		127.2	
		TOL	°C		-10		
		WTOL	°C		35		
		PERd	%		0		
		COPd		3.25		3.18	
		Pdh	kW	9.8		12.5	
		PERd	%	130		127.2	
		Tbiv	°C		-10		
		Psup (at Tdesign -10°C)	kW		0		
		General	Annual energy consumption	5,383		6,942	
			ns (Seasonal space heating efficiency)	180		182	
			Prated at -22°C	10		13	
		Cdh (Degradation heating)			4.03		
		COPd			7.9		
		PERd	%		161.2		
		Cdh (Degradation heating)			1		
		COPd		5.47		5.6	
		Pdh	kW	4.2		4.8	
		PERd	%	218.8		224	
		Cdh (Degradation heating)			1		
		COPd		7.27		7.49	
		Pdh	kW	5.6		6.6	

2 Specifications

2 - 1 Specifications

2

Technical specifications					EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	PERd	%	290.8		299.6	
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh	kW	7.7			
			PERd	%	349.2			
		Tol (tem- perature operating limit)	COPd		2.1		2.05	
			Pdh	kW	8.6		9.7	
			PERd	%	84		82	
			TOL	°C	-22			
			WTOL	°C	35			
		G Condition (-15°CDB/-)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
	Warm climate water outlet 35°C	Tbiv (bivalent tempera- ture)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
			Tbiv	°C	-15			
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	1.4		3.3	
		General	Annual energy consumption	kWh	2,079		2,856	
			ηs (Seasonal space heating efficiency)	%	254		240	
			Prated at 2°C	kW	10		13	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh	kW	8.9		9.6	
			PERd	%	150		142	
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
		Tbiv (bivalent tempera- ture)	COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
			Tbiv	°C	7			
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.31		8.56	
			Pdh	kW	6			
			PERd	%	332.4		342.4	

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

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

Technical Specifications				EPSK12AW1	EPSK14AW1
Casing	Colour				Silver / Black
	Material				Polyester painted galvanised steel plate
Dimensions	Unit	Height	mm	1,123	
		Width	mm	1,330	
		Depth	mm	604	
	Packed unit	Height	mm	1,320	
		Width	mm	1,445	
		Depth	mm	775	
Weight	Unit				191
	Packed unit				222
Packing	Material				Carton / Wood (pallet) / PE (Straps)
	Weight				31.5
Heat exchanger	Length	Quantity	mm	1,210	
				1	
	Fin pitch	Quantity	mm	2.6	
				8	
	Face area	Quantity	m ²	1.29	
				88	
	Tube type	Quantity		Microchannel ..	
				WF & Slit fin ..	
	Fin	Type		High Corrosion Resistant	
			Treatment		

2 Specifications

2 - 1 Specifications

Technical Specifications					EPSK12AW1		EPSK14AW1	
Fan	Type				Propeller fan			
	Quantity				1			
	Air flow rate	Heating	High	m³/min	96.3			
		Cooling	High	m³/min	96.3			
	Discharge direction				Horizontal			
Fan motor	Quantity				1			
	Model				Brushless DC motor			
	Output				117 W			
	Drive				Direct drive			
	Speed	Steps			12			
		Heating	Nom.	rpm	526			
		Cooling	Nom.	rpm	526			
	Compressor	Quantity				1		
Type				Hermetically sealed scroll compressor				
Starting method				Inverter driven				
PED	Category				Category II			
Operation range	Heating	Min.	°CDB		-28			
		Max.	°CDB		25			
	Cooling	Min.	°CDB		10			
		Max.	°CDB		43			
	Domestic hot water	Max.	°CDB		40			
		Min.	°CDB		-28			
PED	Most critical part	Name	Ps*V		Compressor			
Piping connections	inch	in		161				
	inch	in		G 11/4" (male) ..				
Sound power level	Heating	Nom.	dBA		52 (1)			
	Cooling	Nom.	dBA		62 (2)		63 (2)	
Sound pressure level	Heating	Nom.	dBA		38 (1)			
	Cooling	Nom.	dBA		47 (2)		48 (2)	
	Night quiet mode	Heating	dBA		38 (1)			
		Cooling	dBA		41 (2)			
Refrigerant	Type				R-290			
	GWP				3			
	Charge				1.25 kg			
	Control				Expansion valve			
	Circuits	Quantity			1			
Refrigerant oil	Type				Refer to the name plate of the compressor			
	Charged volume				1.3 l			
Piping connections	Piping length	OU - IU	Max.	m	20 (3) / 50 (4)			
	High pressure side	Design pressure			32 bar			
	Level difference	IU - OU	Max.	m	10			
	Water circuit				Filter ball valve			
Defrost method					Yes			
Defrost control					Reversed cycle			
Capacity control	Method				Sensor for outdoor heat exchanger temperature			
Safety devices	Item				Inverter controlled			
	01				High pressure switch			
	02				Fuse			

Electrical Specifications					EPSK12AW1	EPSK14AW1
Power supply	Name				W1	
	Phase				3~	
	Frequency	Hz			50	
	Voltage	V			400	
	Voltage range	cos phi	Nom.		0.85	
			Max.		0.92	
Current	kVa				Equipment complying with EN / IEC 61000-3-2	
	Recommended fuses	A			16	
	Inverter modulation	Min.			35	30
Wiring connections	For power supply	Remark			See installation manual outdoor unit	
	For connection with indoor	Remark			See installation manual indoor unit	

(1) Measured at LWC 47-55°C ; Ta DB/WB 7°C/6°C. |

(2) Measured at LWC 12-7°C ; Ta 35°C. |

(3) 1 1/4" field piping |

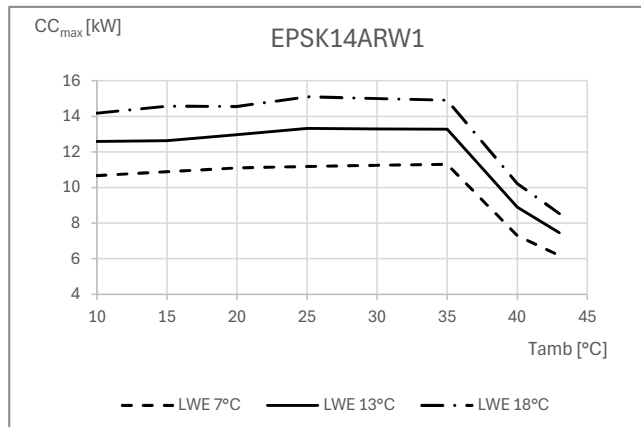
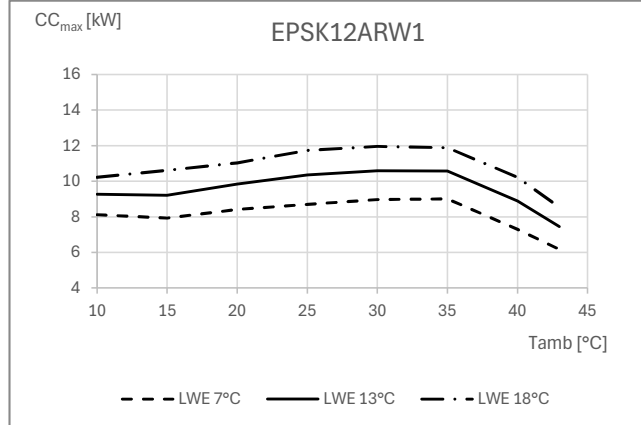
(4) 1 1/2" field piping

3 Capacity graphs

3 - 1 Cooling Capacity Graphs - quiet mode

EPSK12-14AW1

Maximum cooling capacity



Symbols

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

Conditions

Cooling capacity

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

Notes

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

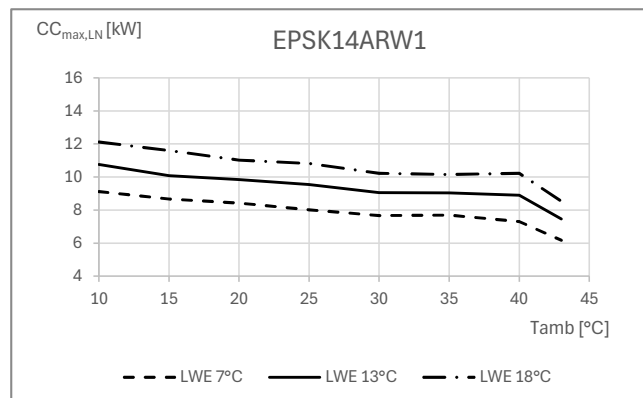
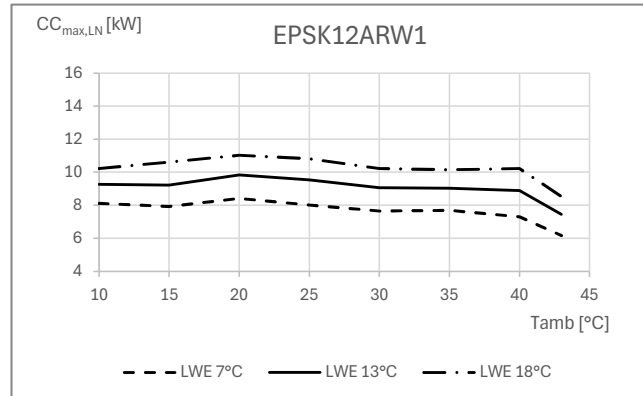
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3 Capacity graphs

3 - 1 Cooling Capacity Graphs - quiet mode

EPSK12-14AW1

Maximum cooling capacity



Symbols

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

Conditions

Cooling capacity

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

Notes

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

The capacity and the power input are at maximum operation.

Low noise level ·2·

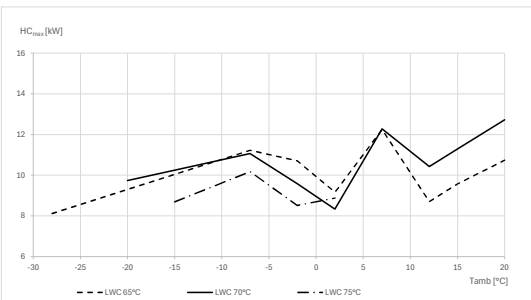
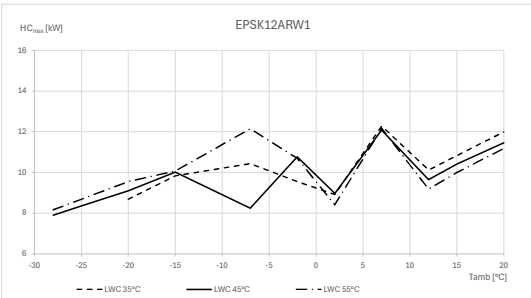
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3 Capacity graphs

3 - 2 Heating Capacity Graphs

EPSK12AW1

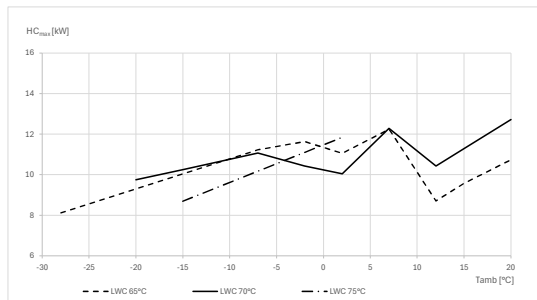
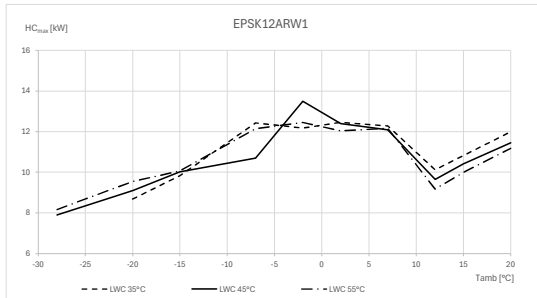
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

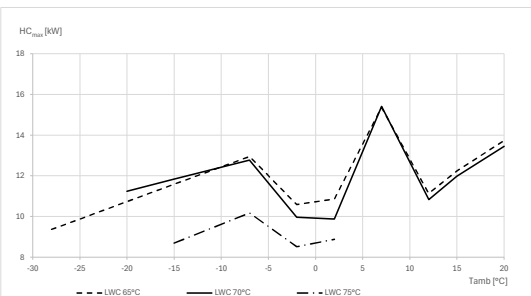
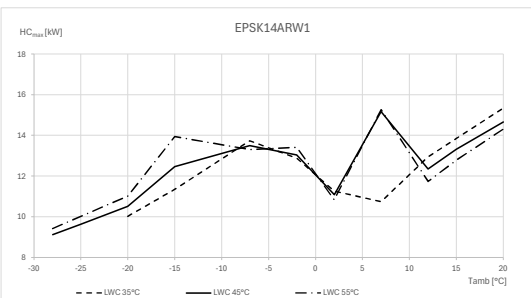
Notes

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.

4D155527B

EPSK14AW1

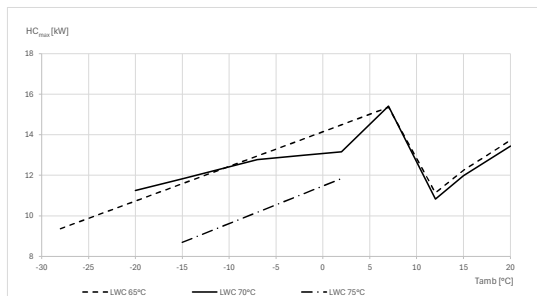
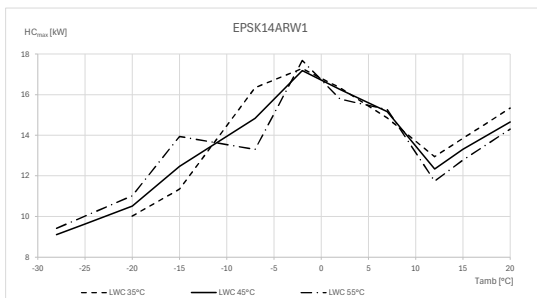
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

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.

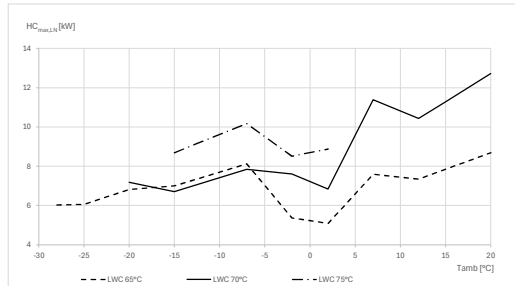
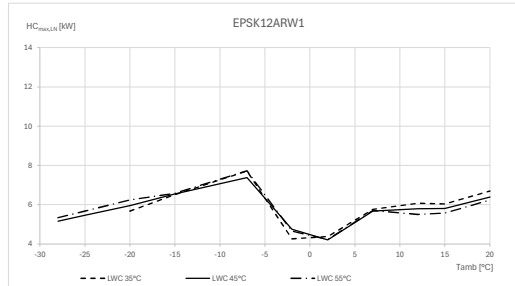
4D155527B

3 Capacity graphs

3 - 3 Heating Capacity Graphs - quiet mode

EPSK12AW1

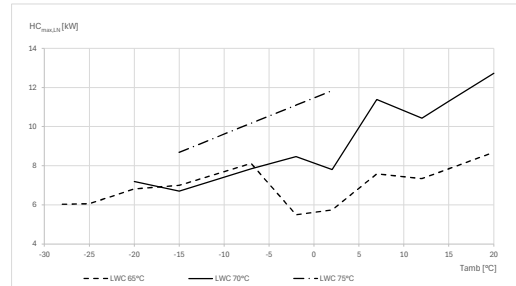
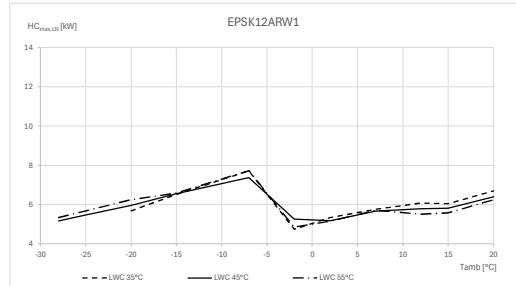
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

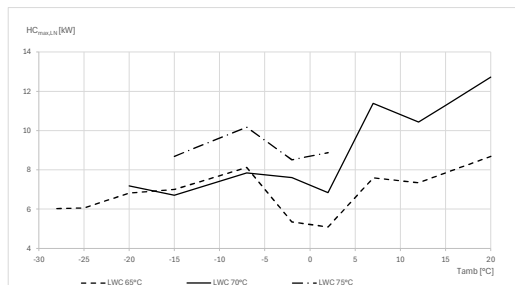
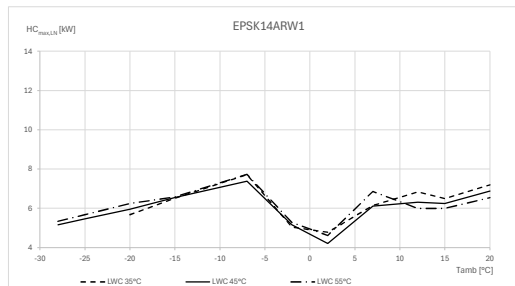
Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
The capacity and the power input are at maximum operation.
Low noise level -2-

4D155528A

EPSK14AW1

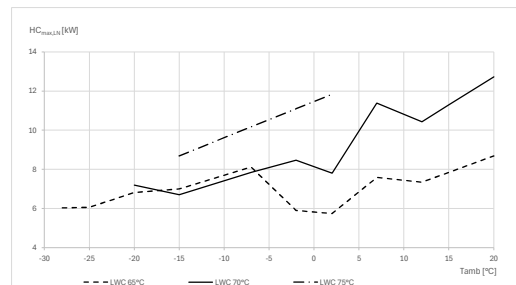
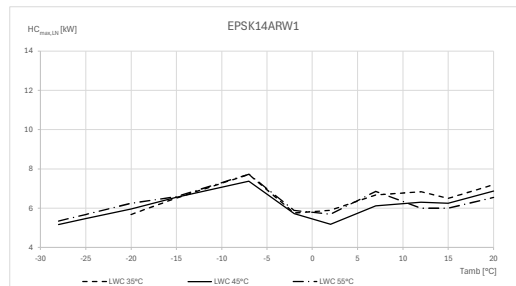
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

Notes

The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
The capacity and the power input are at maximum operation.
Low noise level -2-

4D155528A

Capacity tables

4 - 1 Certification Programs

4

EPSK06-10AV3

EPSK08-10AW1

EPSK12-14AW1

Rated data for certification programmes - heating mode

Tamb [°C]	EWL [°C]	LWC [°C]	EPSK06ARV3 HC [kW]	COP	EPSK08ARV3 HC [kW]	COP	EPSK08ARW1 HC [kW]	COP	EPSK10ARV3 HC [kW]	COP	EPSK10ARW1 HC [kW]	COP	EPSK12ARW1 HC [kW]	COP	EPSK14ARW1 HC [kW]	COP	Used for:
7/6	30	35	5,81	5,19	7,62	5,01	7,62	5,01	8,11	4,94	8,11	4,94	10,24	5,50	10,24	5,50	Keymark, EHPA
2/1	(30)	35	5,59	4,46	5,59	4,46	5,59	4,46	5,59	4,46	5,59	4,46	6,11	4,06	6,11	4,06	ENPA
-7/8	(35)	35	6,23	3,38	7,06	3,32	7,06	3,32	9,11	2,85	9,11	2,85	10,52	3,49	10,52	3,49	General
7/6	40	45	5,83	4,15	7,66	4,10	7,66	4,10	8,19	4,06	8,19	4,06	10,22	4,31	10,22	4,31	General
2/1	(40)	45	5,31	2,75	6,41	2,55	6,41	2,55	7,44	2,43	7,44	2,43	10,77	3,03	13,03	2,58	MCS
7/6	47	55	6,08	3,46	7,85	3,42	7,85	3,42	8,40	3,41	8,40	3,41	10,91	3,60	10,91	3,60	Keymark, EHPA

Rated data for certification programmes - cooling mode

Tamb [°C]	EWL [°C]	LWE [°C]	EPSK06ARV3 CC [kW]	EER	EPSK08ARV3 CC [kW]	EER	EPSK08ARW1 CC [kW]	EER	EPSK10ARV3 CC [kW]	EER	EPSK10ARW1 CC [kW]	EER	EPSK12ARW1 CC [kW]	EER	EPSK14ARW1 CC [kW]	EER	Used for:
35	23	18	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,74	6,02	6,74	6,02	General
35	12	7	6,00	3,87	6,89	3,73	6,89	3,73	7,84	3,62	7,84	3,62	9,37	3,55	11,30	3,28	General

Nominal cooling capacity

Tamb [°C]	EWL [°C]	LWE [°C]	EPSK06ARV3 CC [kW]	EER	EPSK08ARV3 CC [kW]	EER	EPSK08ARW1 CC [kW]	EER	EPSK10ARV3 CC [kW]	EER	EPSK10ARW1 CC [kW]	EER	EPSK12ARW1 CC [kW]	EER	EPSK14ARW1 CC [kW]	EER	Used for:
35	23	18	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,74	6,02	6,74	6,02	General
35	12	7	6,00	3,87	6,89	3,73	6,89	3,73	7,84	3,62	7,84	3,62	9,37	3,55	11,30	3,28	General

Seasonal data - cooling

Tamb [°C]	EWL [°C]	LWE [°C]	EPSK06ARV3 CC [kW]	EER	EPSK08ARV3 CC [kW]	EER	EPSK08ARW1 CC [kW]	EER	EPSK10ARV3 CC [kW]	EER	EPSK10ARW1 CC [kW]	EER	EPSK12ARW1 CC [kW]	EER	EPSK14ARW1 CC [kW]	EER	Used for:
35	23	18	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,37	5,83	6,74	6,02	6,74	6,02	General
35	12	7	6,00	3,87	6,89	3,73	6,89	3,73	7,84	3,62	7,84	3,62	9,37	3,55	11,30	3,28	General

Rated data for certification programmes - domestic hot water performance

Indoor unit	EPSK06ARV3	EPSK08ARV3	EPSK08ARW1	EPSK10ARV3	EPSK10ARW1	EPSK12ARW1	EPSK14ARW1	Used for:
Application	Average climate	Average climate	Average climate	Average climate	Average climate	Average climate	Average climate	
Domestic hot water tank volume [l]	180	220	220	220	220	220	220	
Tapping pattern	L	L	L	L	L	L	L	
Heat-up time (h:mm:ss)	1:13:41	1:08:50	1:08:50	1:08:50	1:08:50	1:08:50	1:08:50	
P _{wh} [kW]	42,1	43,9	43,9	43,9	43,9	43,9	43,9	
P _{wh} [W]	204	204	204	204	204	204	204	
P _{wh} [W]	117,28	116,26	121,24	117,28	116,26	121,24	117,28	
COP _{wh} [l]	2,89	2,91	3,09	2,89	2,91	3,09	2,89	

Symbols

HC Heating capacity measured according to EN 14511
CC Cooling capacity, measured according to EN 14511
COP/EER Coefficient of Performance/Energy efficiency ratio according to EN 14511
EWL Entering water condenser temperature [°C]
LWC Leaving water condenser temperature [°C]
EWE Entering water evaporator temperature [°C]

LWE Leaving water evaporator temperature [°C]
Tamb Ambient temperature [°C DB/WB]
P_{wh} Reference
P_{wh} Standby power input
V_{wh} Equivalent domestic hot water volume [l]
P_{wh} Efficiency [%]
COP_{wh} Domestic hot water COP

Domestic hot water temperature [°C]
Domestic hot water heating mode
Domestic hot water COP

According to EN16147.
According to EN16147.
According to EN16147.

4D155514

EPSK06-10AV3

EPSK08-10AW1

EPSK12-14AW1

Rated data for certification programmes - heating mode

Measured according to -UNI/TS 11300-

Condition	Tamb [°C]	LWC [°C]	PLR [%]	EPSK06ARV3 HC [kW]	COP	EPSK08ARV3 HC [kW]	COP	EPSK08ARW1 HC [kW]	COP	EPSK10ARV3 HC [kW]	COP	EPSK10ARW1 HC [kW]	COP	EPSK12ARW1 HC [kW]	COP	EPSK14ARW1 HC [kW]	COP
A	-7/-8	34	100	6,22	3,45	7,94	3,22	7,94	3,22	8,51	2,82	8,51	2,82	10,44	3,12	13,74	2,80
B	2/1	30	100	4,88	3,96	5,94	3,62	5,94	3,62	6,94	3,47	6,94	3,47	9,50	4,36	11,09	3,76
C	7/6	27	100	5,91	6,48	7,55	5,82	7,55	5,82	9,64	5,39	9,64	5,39	10,62	5,87	10,73	4,79
D	12/11	24	100	6,96	8,58	6,96	8,58	6,96	8,58	8,36	7,80	8,36	7,80	10,96	9,09	13,50	8,26
A	-7/-8	52	100	6,47	2,60	8,18	2,46	8,18	2,46	9,76	2,38	9,76	2,38	12,22	2,49	13,87	2,19
B	2/1	42	100	4,44	2,99	5,89	3,00	5,89	3,00	7,25	3,00	7,25	3,00	9,44	3,43	10,93	3,19
C	7/6	36	100	5,95	5,22	7,65	4,90	7,65	4,90	9,81	4,68	9,81	4,68	12,28	5,34	10,52	4,24
D	12/11	30	100	4,87	7,53	6,30	7,14	6,30	7,14	8,25	6,85	8,25	6,85	10,41	7,82	12,91	6,96

Rated data for certification programmes - cooling mode

Measured according to -UNI/TS 11300-

Condition	Tamb [°C]	LWE [°C]	PLR [%]	EPSK06ARV3 CC [kW]	EER	EPSK08ARV3 CC [kW]	EER	EPSK08ARW1 CC [kW]	EER	EPSK10ARV3 CC [kW]	EER	EPSK10ARW1 CC [kW]	EER	EPSK12ARW1 CC [kW]	EER	EPSK14ARW1 CC [kW]	EER
A	35	18	100	8,61	5,53	9,67	5,10	9,67	5,10	10,78	4,79	10,78	4,79	11,97	4,24	14,50	3,72
B	30	18	75	6,24	7,15	7,64	6,83	7,64	6,83	8,46	6,70	8,46	6,70	10,00	5,45	12,49	4,90
C	25	18	50	4,45	9,86	4,79	9,74	4,79	9,74	5,67	9,50	5,67	9,50	6,71	7,08	8,60	6,14
D	20	18	25	3,37	12,25	3,37	12,25	3,37	12,25	3,37	12,25	3,37	12,25	9,59	7,82	9,59	7,82
A	35	7	100	6,00	3,87	6,91	3,76	6,91	3,76	7,84	3,62	7,84	3,62	9,37	3,55	11,30	3,28
B	30	7	75	4,39	4,96	4,97	4,77	4,97	4,77	5,66	4,62	5,66	4,62	7,27	3,99	9,13	3,68
C	25	7	50	2,93	6,01	3,39	5,97	3,39	5,97	4,11	5,93	4,11	5,93	4,93	4,92	6,34	4,57
D	20	7	25	6,54	5,90	6,54	5,90	6,54	5,90	6,54	5,90	6,54	5,90	7,03	5,46	7,07	5,50

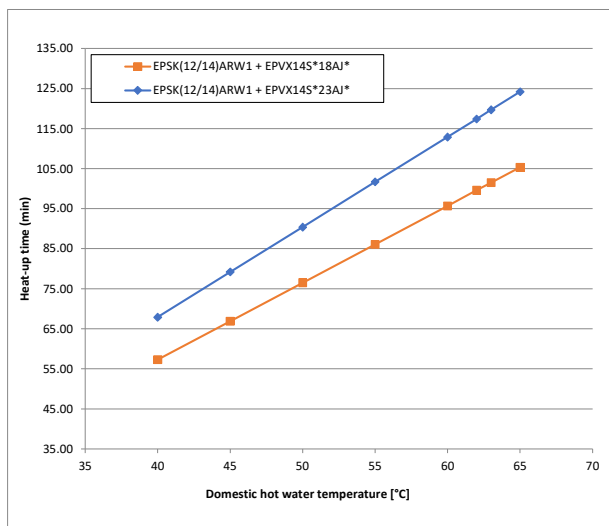
4D155514

4 Capacity tables

4 - 2 Domestic Hot Water performance

EPSK12-14AW1

Heat-up times



Model name	Heat-up time domestic hot water tank until 46°C
EPSK(12/14)ARW1 + EPVX14S*18AJ*	·69· min.
EPSK(12/14)ARW1 + EPVX14S*23AJ*	·82· min.

Notes

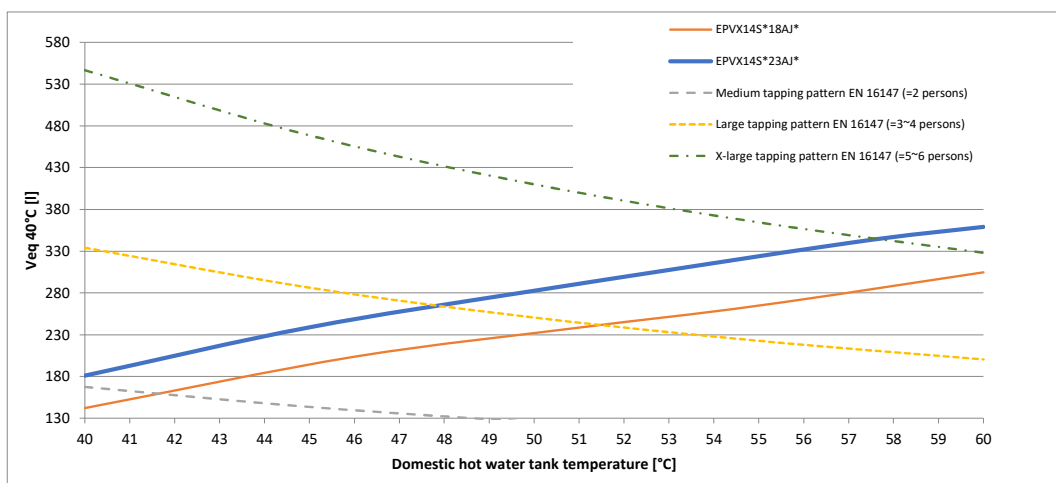
1. Time the indoor unit (heat pump only operation) requires to heat up the domestic hot water tank from 10°C to the indicated temperature.
See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

4D155522

EPSK12-14AW1

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.

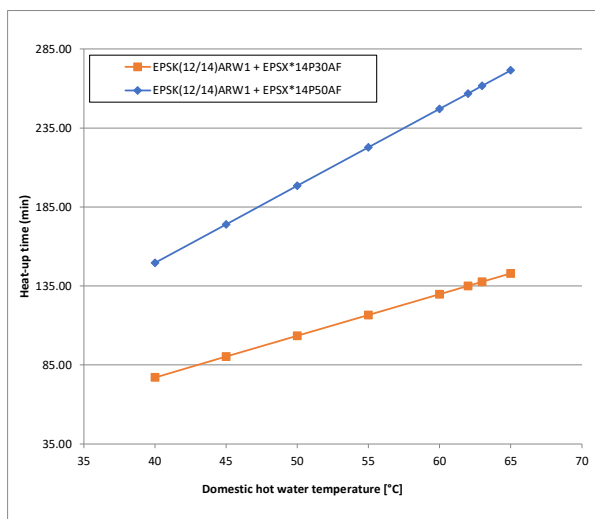
4D155522

4 Capacity tables

4 - 2 Domestic Hot Water performance

EPSK12-14AW1

Heat-up times



Model name	Heat-up time domestic hot water tank until
EPSK(12/14)ARW1 + EPSX*14P30AF	48 °C: 99 min.
EPSK(12/14)ARW1 + EPSX*14P50AF	47 °C: 184 min.

Notes

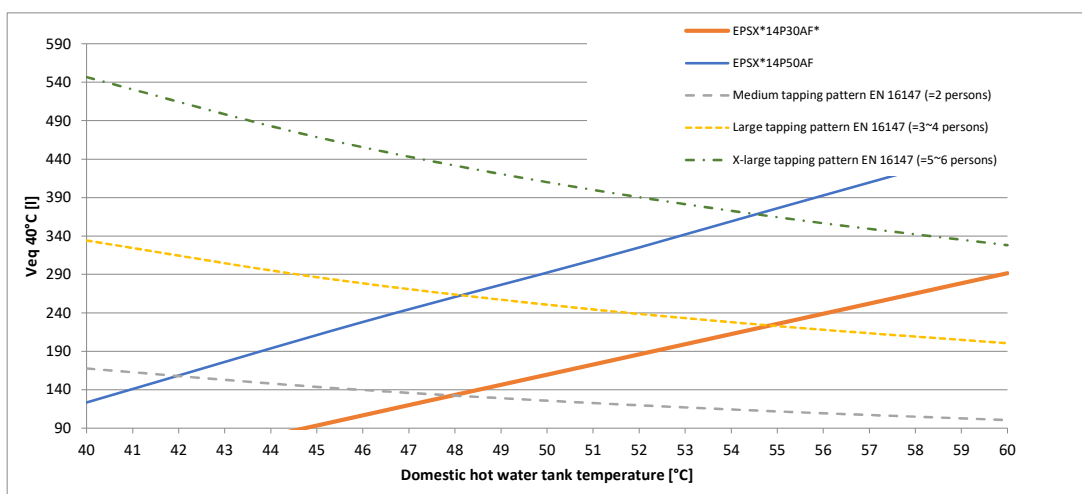
1. Time the indoor unit (heat pump only operation) requires to heat up the domestic hot water tank from 10°C to the indicated temperature.
See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

4D155522

EPSK12-14AW1

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.



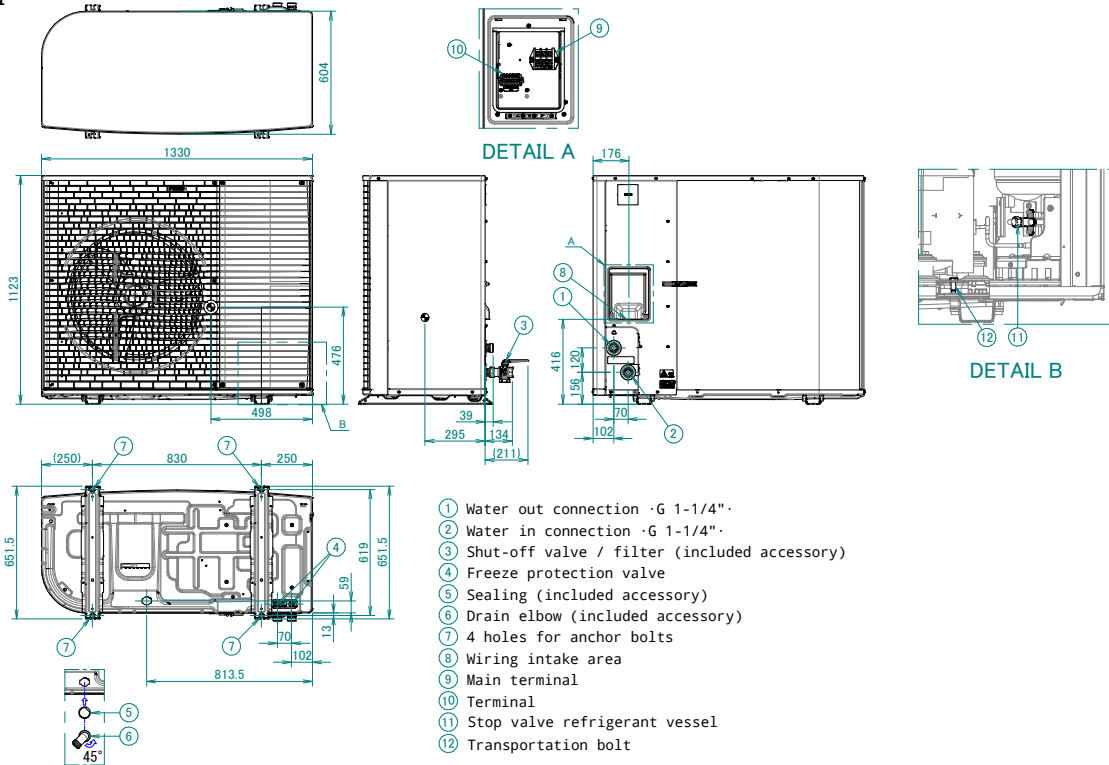
If a higher daily Veq 40°C is required, then additional heat-up cycles are required within 24 hours.
See the operation manual for more information.

4D15552

5 Dimensional drawings

5 - 1 Dimensional Drawings

EPSK06-10AV3
EPSK08-10AW1
EPSK12-14AW1

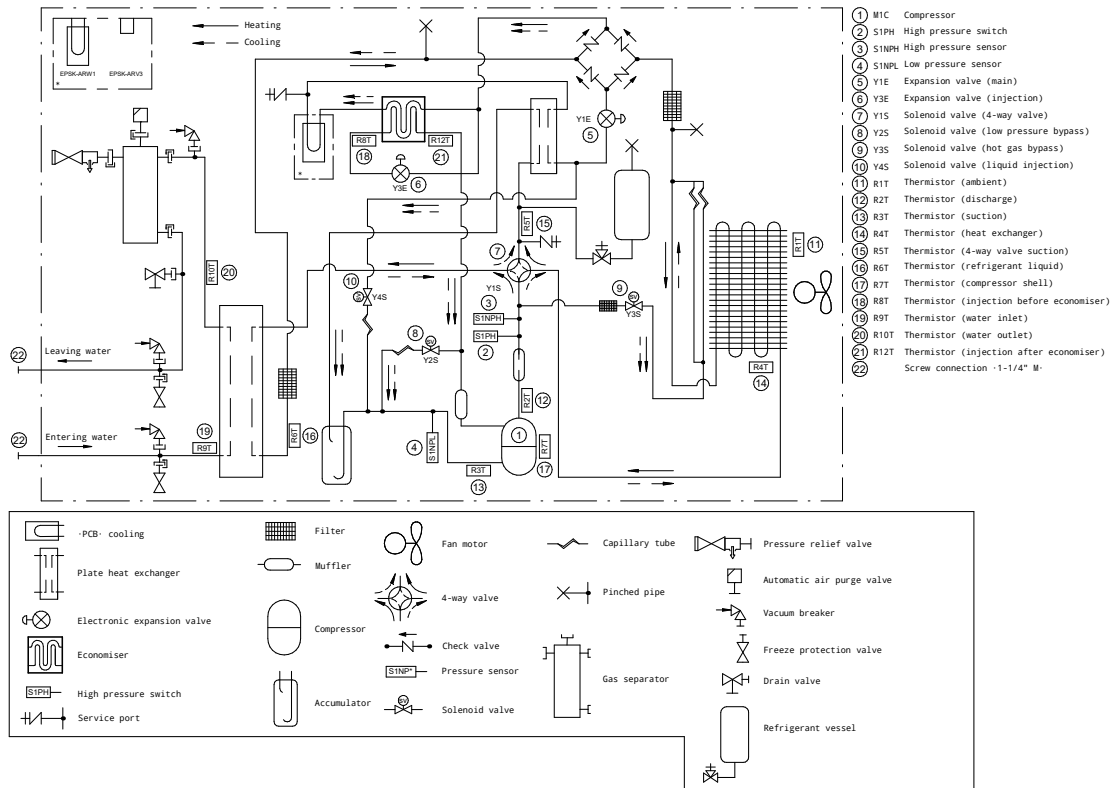


3D154477

6 Piping diagrams

6 - 1 Piping Diagrams

EPSK06-10AV3
EPSK08-10AW1
EPSK12-14AW1



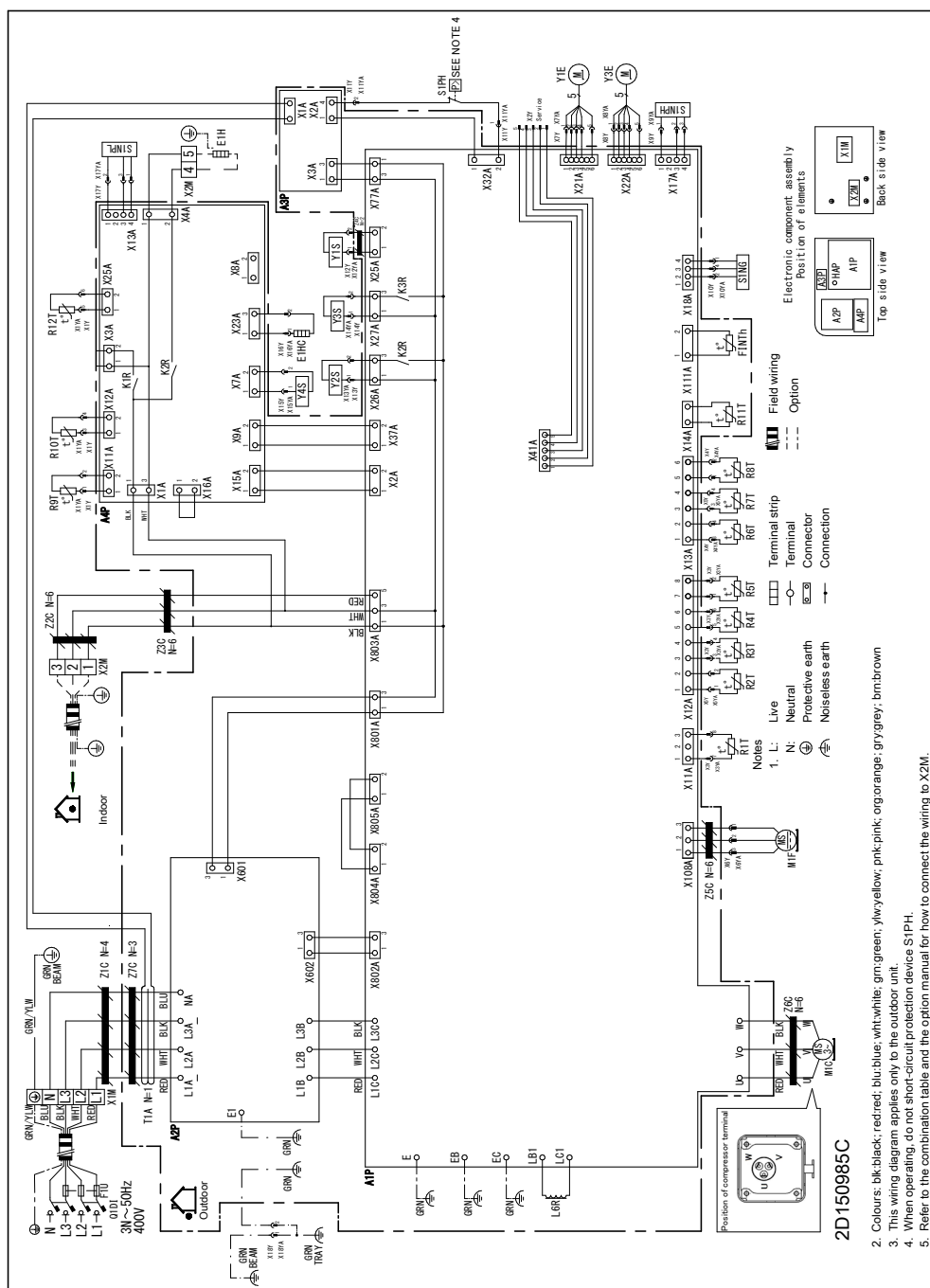
3D150154B

7 Wiring diagrams

7 - 1 Wiring Diagrams - Three Phase

EPSK08-10AW1
EPSK12-14AW1

A1P	Printed circuit board (main)
A2P	Printed circuit board (net filter)
A3P	Printed circuit board (leakage current)
A4P	Printed circuit board (ACS)
E1H	Drain tube heater (field supply)
E1HC	Crank case heater
F1U	Field fuse (field supply)
HAP (A1P, A4P)	Light-emitting diode (service monitor is green)
K2R (A1P)	Magnetic relay (Y2S)
K3R (A1P)	Magnetic relay (Y3S)
M1G	Motor (compressor)
M1F	Motor (fan)
Q1DI	Earth leakage circuit breaker (30mA/field supply)
R1T	Thermistor (ambient)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger)
R5T	Thermistor (4-way valve suction)
R6T	Thermistor (liquid)
R7T	Thermistor (compressor shell)
R8T	Thermistor (injection before economiser)
R9T	Thermistor (water inlet)
R10T	Thermistor (water outlet)
R11T	Thermistor (heat pipe)
R12T	Thermistor (injection after economiser)
S1NG	Gas sensor
S1NPL	Low pressure sensor
S1NPH	High pressure sensor
S1PH	High pressure switch
T1A	Current transformer
X+Y	Connectors
X+M	Terminal strip
Y1E	Electronic expansion valve (main)
Y3E	Electronic expansion valve (injection)
Y1S	Solenoid valve (4-way valve)
Y2S	Solenoid valve (low pressure bypass)
Y3S	Solenoid valve (hot gas bypass)
Y4S	Solenoid valve (liquid injection)
Z4C	Noise filter (ferrite core)



- Colours: blk:black; red:red; blu:blue; wht:white; gm:green; ylw:yellow; pnk:pink; org:orange; gry:grey; brn:brn
- This wiring diagram applies only to the outdoor unit.
- When operating, do not short-circuit protection device S1PH.
- Refer to the combination table and the option manual for how to connect the wiring to X2M.

2D150985C

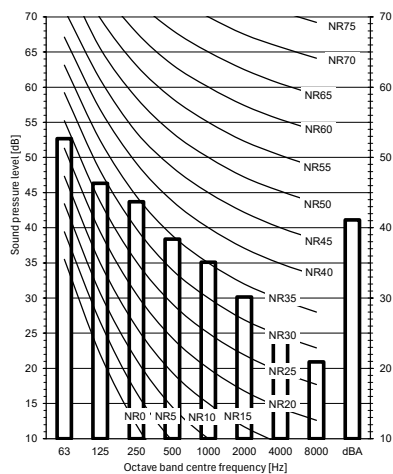
8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

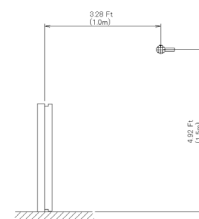
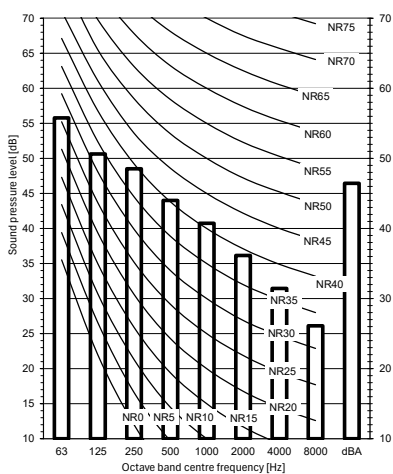
EPSK12-14AW1

Sound pressure [dBA]
Cooling operation
Normal mode

EPSK12ARW1



EPSK14ARW1



Measuring location (discharge side)

	Sound pressure [dBA]		
	1m	3m	5m
EPSK12ARW1	41.1	31.6	27.1
EPSK14ARW1	42.4	32.9	28.4

Notes

1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μ Pa
5. If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

3D154977

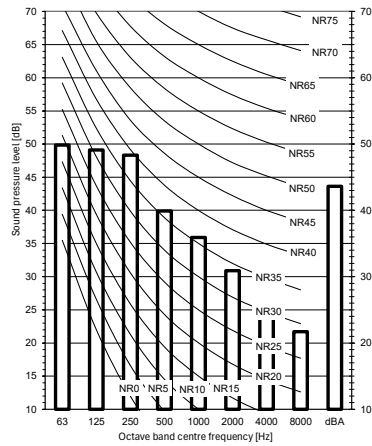
8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

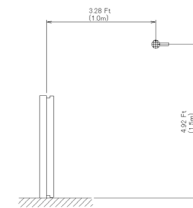
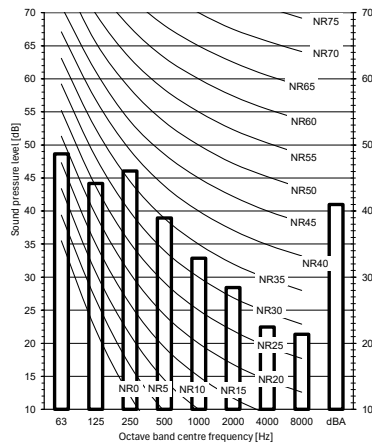
EPSK12-14AW1

Sound pressure [dBA]
Heating operation
Normal mode

EPSK12ARW1



EPSK14ARW1



Measuring location (discharge side)

	Sound pressure [dBA]		
	1m	3m	5m
EPSK12ARW1	39.9	30.4	25.9
EPSK14ARW1	41.0	31.5	27.0

Notes

1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μ Pa
5. If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

		Maximum sound day		Maximum sound night	
		Sound Power Level [dBA]		Sound Power Level [dBA]	
Maximum sound day	Maximum sound night	EPSK12ARW1	EPSK14ARW1	EPSK12ARW1	EPSK14ARW1
Default	Low noise level -2-	60	61	51	51
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)					

3D154975

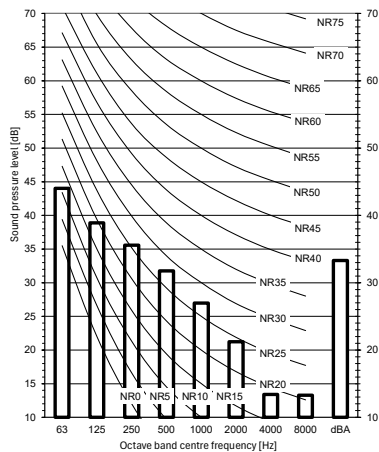
8 Sound data

8 - 3 Sound Pressure Spectrum Quiet Mode

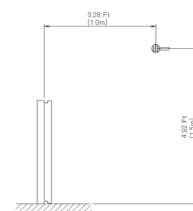
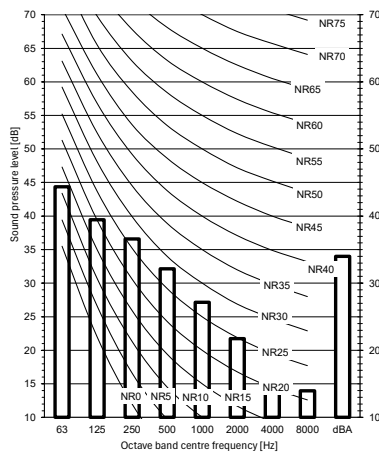
EPSK12-14AW1

Sound pressure [dBA]
Heating operation
Quiet mode

EPSK12ARW1



EPSK14ARW1



Measuring location (discharge side)

	Sound pressure [dBA]		
	1m	3m	5m
EPSK12ARW1	33.3	23.8	19.4
EPSK14ARW1	34.0	24.4	20.0

Notes

1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μ Pa
5. If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

Maximum sound day	Maximum sound night	Maximum sound day		Maximum sound night	
		Sound Power Level [dBA]		Sound Power Level [dBA]	
Default	Low noise level -2	EPSK12ARW1	60	EPSK14ARW1	61
		EPSK12ARW1	51	EPSK14ARW1	51

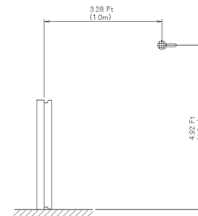
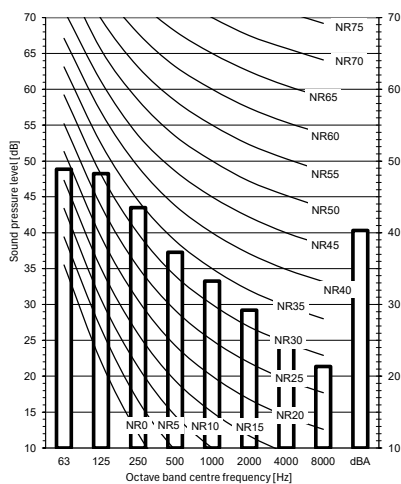
Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)

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EPSK12-14AW1

Sound pressure [dBA]
Cooling operation
Quiet mode

EPSK12ARW1/EPK14ARW1



Measuring location (discharge side)

	Sound pressure [dBA]		
	1m	3m	5m
EPSK12ARW1	36.3	26.8	22.3
EPSK14ARW1	36.3	26.8	22.3

Notes

1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μ Pa
5. If the sound is measured under actual installation conditions, the measured value will be higher due to environmental noise and sound reflections.

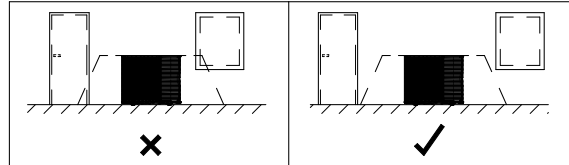
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9 Installation

9 - 1 Installation Method

EPSK06-10AV3
EPSK08-10AW1
EPSK12-14AW1

Protective zone in front of a building	
Floor-standing	Elevated
Protective zone for right corner installation	
Floor-standing	Elevated
Protective zone for left corner installation	
Floor-standing	Elevated
Protective zone for on-roof installation	



- Requirements for the protective zones:
- 1.No openings into habitable areas of the building.
 - 2.No ignition sources (neither permanently nor for a short period of time).
 - 3.The protective zone must not extend to adjacent buildings or public traffic areas.
 - 4.Other units may only be installed in your unit's protective zone if they are of the same type.
 - 5.No ventilation or skylight openings allowed in the protective zone (on-roof installation).

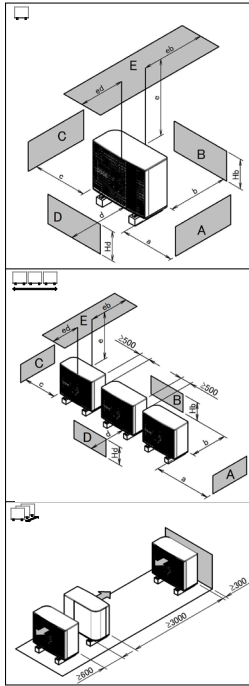
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9 Installation

9 - 2 Installation Method in cascade applications

EP SK06-10AV3
EP SK08-10AW1
EP SK12-14AW1

Installation requirements for -EP SK*AR* units



A-E	Hb Hd Hu	(mm)						
		a	b	c	d	e	eb	ed
B	---	≥300						
A, B, C	---	≥500	≥300	≥100				
B, E	---		≥300			≥1000		≤500
A, B, C, E	---	≥500	≥300	≥150		≥1000		≤500
D	---				≥500			
D, E	---				≥500	≥1000	≤500	
A, C	---	≥500		≥100				
B, D	(Hb OR Hd) ≤ Hu		≥300		≥500			
	(Hb AND Hd) > Hu	X						
B, D, E	(Hb OR Hd) ≤ Hu		≥300		≥1000	≥1000		≤500
	(Hb AND Hd) > Hu		≥300		≥1000	≥1000	≤500	
	(Hb AND Hd) > Hu	X						
A, C, D, E	---	≥500		≥150	≥500	≥1000	≤500	
B	---		≥300					
A, B, C	---	≥500	≥300	≥500				
B, E	---		≥300			≥1000		≤500
A, B, C, E	---	≥500	≥300	≥500		≥1000		≤500
D	---				≥500			
D, E	---				≥500	≥1000	≤500	
A, C	---	≥500		≥500				
B, D	(Hb OR Hd) ≤ Hu		≥300		≥500			
	(Hb AND Hd) > Hu	X						
B, D, E	(Hb OR Hd) ≤ Hu		≥300		≥1000	≥1000		≤500
	(Hb AND Hd) > Hu		≥300		≥1000	≥1000	≤500	
	(Hb AND Hd) > Hu	X						
A, C, D, E	---	≥500		≥500	≥500	≥1000	≤500	

Legend

Symbols

- A, C Obstacles (walls/baffle plates)
- B Obstacles on the suction side
- D Obstacles on the discharge side
- E Obstacle (roof)

a, b, c, d, e Minimum service space between the unit and obstacles A, B, C, D and E

eb Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B

ed Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

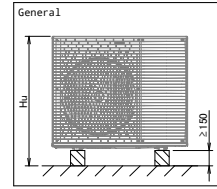
Hu Height of the unit

Hb, Hd Height of obstacles B and D

X Not allowed

(1)

(2)



Cascading outdoor units.

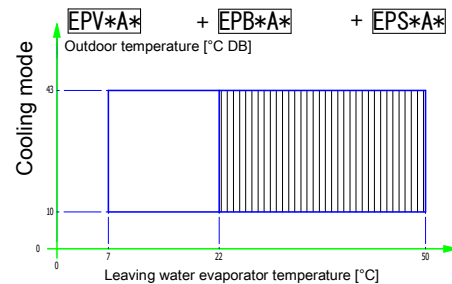
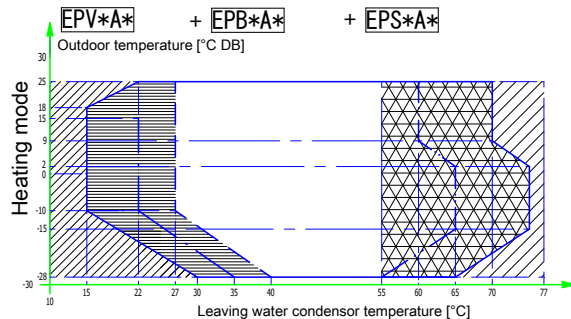
The installation layouts with multiple outdoor units shown in (1): (side to side) and (2): (front to back/back to front) are only allowed in combination with wall-mounted indoor units, NOT in combination with floor-standing indoor units.

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10 Operation range

10 - 1 Operation Range

EPSK12-14AW1



Legend

- Backup heater only operation
- No outdoor unit operation
- Outdoor unit operation if controller setpoint is regulated to minimal leaving water temperature request.
- Assisted by the backup heater
- See dashed lines
- Outdoor unit operation if setpoint > 55 °C and $\Delta T = 10 \text{ °C}$ ($\Delta T = \text{outlet temperature} - \text{inlet temperature}$)
- Pull-down area
- Minimum setpoint
- Maximum start inlet water temperature
- Minimum water temperature to start defrost

Notes

1. Tank preheating
- For details, see the installer reference guide.
2. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
- For more information, refer to the installation manual.
3. In restricted power supply mode, the outdoor unit and backup heater can only operate separately.

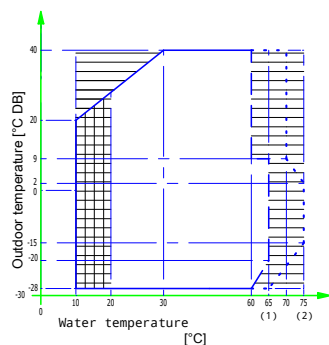
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EPSK12-14AW1

Domestic hot water heating mode

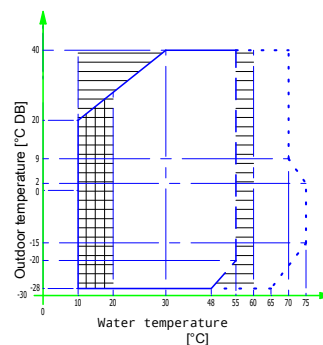
EPV*A* + EPS*A* + EKHWP* + EKHWS*200*
EKHWS*250*
EKHWS*300*

Third-party with identical specifications as EKHWS*200*



EKHWS*150*
EKHWS*180*

Third-party with identical specifications as EKHWS*150*



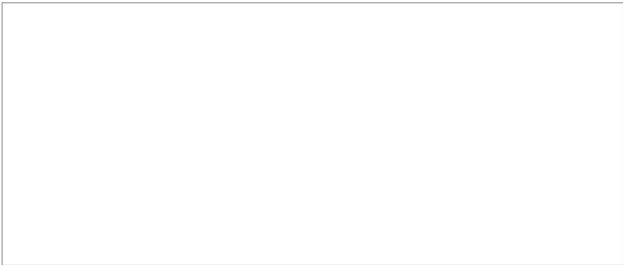
Legend

- Setpoint [°C]
- Domestic hot water
- Leaving water temperature [°C]
- Pull-up area
- Backup heater only operation (or booster heater, if part of the system)
- (1) EPV*A* indoor units only
- (2) EPS*A* indoor units only

Notes

1. In restricted power supply mode (EKHWS* 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. If negative ambient temperatures are expected, both in operation or at standstill, take adequate countermeasures against freezing.
- For more information, refer to the installation manual.
4. 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.

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EEDEN25

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