Daikin Altherma high temperature split Technical Data

EPSK12-14AW1

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EPSK12-14AW1

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)		m^3/h	5,781	
	Other	Capacity control			Inverter	
		Pck (Crankcase heater mode)		kW	0	
		Poff (Off mode)		kW	0.022	
		Psb (Standby mode)		kW	0.022	
		Pto (Thermostat off)		kW	0.022	
	Integrated supplementary heater	Psup		kW	4.5	
		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					EPBX14A4V + EPSK12AW1	EPBX14A4V + EPSK14AW1
Space heating	Average climate water outlet 55°C	A Condition (-7°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		3.92	3.52
			Pdh	kW	5.5	8
			PERd	%	156.8	140.8
		C Condition (7°CD-B/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°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1	
			COPd		3.04	
			Pdh	kW	8.4	
			PERd	%	121.6	
		B Condition (2°CD-B/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/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 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					EPBX14A4V + EPSK12AW1	EPBX14A4V + EPSK14AW1
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	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°CD-B/-8°CWB)	COPd		3.69	3.45
			Pdh	kW	8.9	10.9
			PERd	%	147.6	138
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		4.85	4.58
			Pdh	kW	6.3	6.7
			PERd	%	194	183.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1	
			COPd		6.63	6.67
			Pdh	kW	8	
			PERd	%	265.2	266.8
		D Condition (12°CD-B/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°CD-B/-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°CD-B/-8°CWB)	Pdh	kW	7.9	
			PERd	%	161.2	
		B Condition (2°CD-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°CD-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°CD-B/11°CWB)	Cdh (Degradation heating)		1	
			COPd		8.73	
			Pdh	kW	7.7	
			PERd	%	349.2	
		Tol (temperature 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 temperature)	COPd		2.54	2.5
			Pdh	kW	8	10.9
			PERd	%	101.6	100
			Tbiv	°C	-15	
		Rated heat output supplementary 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°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		3.75	3.55
			Pdh	kW	8.9	9.6
			PERd	%	150	142
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1	
			COPd		6.27	6.18
			Pdh	kW	6.7	8.4
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	250.8	247.2
		Tbiv (bivalent temperature)	COPd		6.27	6.18
			Pdh	kW	6.7	8.4
			PERd	%	250.8	247.2
			Tbiv	°C	7	
		D Condition (12°CD-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				EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Indoor unit				EPBX14AF9W	
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	

2 Specifications

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Technical specifications					EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
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)		m^3/h	5,781	
	Other	Capacity control			Inverter	
		Pck (Crankcase heater mode)		kW	0	
		Poff (Off mode)		kW	0.022	
		Psb (Standby mode)		kW	0.022	
		Pto (Thermostat off)		kW	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°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		3.92	3.52
			Pdh	kW	5.5	8
			PERd	%	156.8	140.8
		C Condition (7°CD-B/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°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1	
			COPd		3.04	
			Pdh	kW	8.4	
			PERd	%	121.6	
		B Condition (2°CD-B/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
		D Condition (12°CDB/11°CWB)	COPd		6.95	7.09
			Pdh	kW	6.7	
			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	%	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°CD-B/-8°CWB)	COPd		3.69	3.45
			Pdh	kW	8.9	10.9
			PERd	%	147.6	138
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		4.85	4.58
			Pdh	kW	6.3	6.7
			PERd	%	194	183.2
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1	
			COPd		6.63	6.67
			Pdh	kW	8	
			PERd	%	265.2	266.8
		D Condition (12°CD-B/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°CD-B/-8°CWB)	COPd		4.03	

2 Specifications

2 - 1 Specifications

Technical specifications					EPBX14A9W + EPSK12AW1	EPBX14A9W + EPSK14AW1
Space heating	Cold climate water outlet 35°C	A Condition (-7°CD-B/-8°CWB)	Pdh	kW	7.9	
			PERd	%	161.2	
		B Condition (2°CD-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°CD-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°CD-B/11°CWB)	Cdh (Degradation heating)		1	
			COPd		8.73	
			Pdh	kW	7.7	
			PERd	%	349.2	
		Tol (temperature 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 temperature)	COPd		2.54	2.5
			Pdh	kW	8	10.9
			PERd	%	101.6	100
			Tbiv	°C	-15	
		Rated heat output supplementary 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°CD-B/1°CWB)	Cdh (Degradation heating)		1	
			COPd		3.75	3.55
			Pdh	kW	8.9	9.6
			PERd	%	150	142
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1	
			COPd		6.27	6.18
			Pdh	kW	6.7	8.4
Space heating	Warm climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	250.8	247.2
		Tbiv (bivalent temperature)	COPd		6.27	6.18
			Pdh	kW	6.7	8.4
			PERd	%	250.8	247.2
			Tbiv	°C	7	
		D Condition (12°CD-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				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)			
	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	3.1	4.72	3.1	4.72

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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)		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			
	Other	Capacity control		Inverter			
		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
		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+++			
		A Condition (-7°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.92		3.52	
			Pdh	kW	5.5		8	
			PERd	%	156.8		140.8	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.18		5.38	
			Pdh	kW	3.9		5.1	
			PERd	%	207.2		215.2	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1			
			COPd		3.04			
			Pdh	kW	8.4			
			PERd	%	121.6			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.07		3.95	
			Pdh	kW	3.8		4.7	
			PERd	%	162.8		158	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		5.39		5.63	
			Pdh	kW	5.3			
			PERd	%	215.6		225.2	
		D Condition (12°CD-B/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 (temperature 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 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°CD-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°CD-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°CD-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 temperature)	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°CD-	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°CD-B/-8°CWB)	PERd	%	147.6		138	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.85		4.58	
			Pdh	kW	6.3		6.7	
			PERd	%	194		183.2	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.63		6.67	
			Pdh	kW	8			
			PERd	%	265.2		266.8	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	COPd		4.03			
			Pdh	kW	7.9			
			PERd	%	161.2			
		B Condition (2°CD-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°CD-B/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°CD-B/6°CWB)	PERd	%	290.8		299.6	
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh	kW	7.7			
			PERd	%	349.2			
		Tol (temperature 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 temperature)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
			Tbiv	°C	-15			
		Rated heat output supplementary 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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh	kW	8.9		9.6	
			PERd	%	150		142	
		C Condition (7°CD-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 temperature)	COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
			Tbiv	°C	7			
		D Condition (12°CD-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)		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	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			
	Other	Capacity control		Inverter			
		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
		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					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+++			
		A Condition (-7°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.92		3.52	
			Pdh	kW	5.5		8	
			PERd	%	156.8		140.8	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.18		5.38	
			Pdh	kW	3.9		5.1	
			PERd	%	207.2		215.2	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1			
			COPd		3.04			
			Pdh	kW	8.4			
			PERd	%	121.6			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.07		3.95	
			Pdh	kW	3.8		4.7	
			PERd	%	162.8		158	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		5.39		5.63	
			Pdh	kW	5.3			
			PERd	%	215.6		225.2	
		D Condition (12°CD-B/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 (temperature 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 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°CD-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°CD-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°CD-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 temperature)	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°CD-	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°CD-B/-8°CWB)	PERd	%	147.6		138	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.85		4.58	
			Pdh	kW	6.3		6.7	
			PERd	%	194		183.2	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.63		6.67	
			Pdh	kW	8			
			PERd	%	265.2		266.8	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	COPd		4.03			
			Pdh	kW	7.9			
			PERd	%	161.2			
		B Condition (2°CD-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°CD-B/6°CWB)	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/6°CWB)	PERd	%	290.8		299.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh	kW	7.7			
			PERd	%	349.2			
		Tol (temperature 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 temperature)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
			Tbiv	°C	-15			
		Rated heat output supplementary 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/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh	kW	8.9		9.6	
			PERd	%	150		142	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
		Tbiv (bivalent temperature)	COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
			Tbiv	°C	7			
		D Condition (12°CDB/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					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)	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)	m^3/h	5,781			
	Other	Capacity control		Inverter			
		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			
Space heating general	Integrated supplementary heater	Psup	kW	4.5			
		Type of energy input		Electrical			
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	844	845	844	845
		COPdhw		3.03			
Domestic hot water heating	Average climate	Heat up time		1h 08min	1h 21min	1h 08min	1h 21min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	121			
		Qelec (Daily electricity consumption)	kWh	3.845	3.848	3.845	3.848
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	35.5	33.5	35.5	33.5
		Water heating energy efficiency class		A+			
	Cold climate	AEC (Annual electricity consumption)	kWh	1,081	1,079	1,081	1,079
		COPdhw		2.37			
		Heat up time		1h 21min	1h 36min	1h 21min	1h 36min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	94			
		Qelec (Daily electricity consumption)	kWh	4.921	4.915	4.921	4.915
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	46.9	46.3	46.9	46.3
	Warm climate	AEC (Annual electricity consumption)	kWh	781	780	781	780
		COPdhw		3.28			
		Heat up time		1h 10min	1h 23min	1h 10min	1h 23min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	131			
		Qelec (Daily electricity consumption)	kWh	3.555	3.552	3.555	3.552
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	31.2	30.9	31.2	30.9

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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+++			
		A Condition (-7°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.92		3.52	
			Pdh	kW	5.5		8	
			PERd	%	156.8		140.8	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.18		5.38	
			Pdh	kW	3.9		5.1	
			PERd	%	207.2		215.2	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1			
			COPd		3.04			
			Pdh	kW	8.4			
			PERd	%	121.6			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.07		3.95	
			Pdh	kW	3.8		4.7	
			PERd	%	162.8		158	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		5.39		5.63	
			Pdh	kW	5.3			
			PERd	%	215.6		225.2	
		D Condition (12°CD-B/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 (temperature 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 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°CD-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°CD-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°CD-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 temperature)	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°CD-	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°CD-B/-8°CWB)	PERd	%	147.6		138	
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.85		4.58	
			Pdh	kW	6.3		6.7	
			PERd	%	194		183.2	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		6.63		6.67	
			Pdh	kW	8			
			PERd	%	265.2		266.8	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	COPd		4.03			
			Pdh	kW	7.9			
			PERd	%	161.2			
		B Condition (2°CD-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°CD-B/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 (7°CD-B/6°CWB)	PERd	%	290.8		299.6	
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh	kW	7.7			
			PERd	%	349.2			
		Tol (temperature 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 temperature)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
			Tbiv	°C	-15			
		Rated heat output supplementary 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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh	kW	8.9		9.6	
			PERd	%	150		142	
		C Condition (7°CD-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 temperature)	COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
			Tbiv	°C	7			
		D Condition (12°CD-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					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)		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			

2 Specifications

2 - 1 Specifications

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)	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)	m^3/h	5,781			
	Other	Capacity control		Inverter			
		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			
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	844	845	844	845
		COPdhw		3.03			
Domestic hot water heating	Average climate	Heat up time		1h 08min	1h 21min	1h 08min	1h 21min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	121			
		Qelec (Daily electricity consumption)	kWh	3.845	3.848	3.845	3.848
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	35.5	33.5	35.5	33.5
		Water heating energy efficiency class		A+			
	Cold climate	AEC (Annual electricity consumption)	kWh	1,081	1,079	1,081	1,079
		COPdhw		2.37			
		Heat up time		1h 21min	1h 36min	1h 21min	1h 36min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	94			
		Qelec (Daily electricity consumption)	kWh	4.921	4.915	4.921	4.915
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	46.9	46.3	46.9	46.3
	Warm climate	AEC (Annual electricity consumption)	kWh	781	780	781	780
		COPdhw		3.28			
		Heat up time		1h 10min	1h 23min	1h 10min	1h 23min
		Mixed water at 40°C	l	203.6	253.3	203.6	253.3
		ηwh (water heating efficiency)	%	131			
		Qelec (Daily electricity consumption)	kWh	3.555	3.552	3.555	3.552
		Reference hot water temperature	°C	47	47.4	47	47.4
		Stand-by power input	W	31.2	30.9	31.2	30.9

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+++			
		A Condition (-7°CD-B/-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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.92		3.52	
			Pdh	kW	5.5		8	
			PERd	%	156.8		140.8	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
Space heating	Average climate water outlet 55°C	C Condition (7°CD-B/6°CWB)	COPd		5.18		5.38	
			Pdh	kW	3.9		5.1	
			PERd	%	207.2		215.2	
		D Condition (12°CD-B/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°CD-B/-8°CWB)	Cdh (Degradation heating)		1			
			COPd		3.04			
			Pdh	kW	8.4			
			PERd	%	121.6			
		B Condition (2°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		4.07		3.95	
			Pdh	kW	3.8		4.7	
			PERd	%	162.8		158	
		C Condition (7°CD-B/6°CWB)	Cdh (Degradation heating)		1			
			COPd		5.39		5.63	
			Pdh	kW	5.3			
			PERd	%	215.6		225.2	
		D Condition (12°CD-B/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
Space heating	Cold climate water outlet 55°C	Tol (temperature 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 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°CD-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°CD-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°CD-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 temperature)	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°CD-	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)	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	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			
			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	

2 Specifications

2 - 1 Specifications

Technical specifications					EPVX14S18A9W + EPSK12AW1	EPVX14S23A9W + EPSK12AW1	EPVX14S18A9W + EPSK14AW1	EPVX14S23A9W + EPSK14AW1
Space heating	Cold climate water outlet 35°C	C Condition (7°CD-B/6°CWB)	PERd	%	290.8		299.6	
		D Condition (12°CD-B/11°CWB)	Cdh (Degradation heating)		1			
			COPd		8.73			
			Pdh	kW	7.7			
			PERd	%	349.2			
		Tol (temperature 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 temperature)	COPd		2.54		2.5	
			Pdh	kW	8		10.9	
			PERd	%	101.6		100	
			Tbiv	°C	-15			
		Rated heat output supplementary 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°CD-B/1°CWB)	Cdh (Degradation heating)		1			
			COPd		3.75		3.55	
			Pdh	kW	8.9		9.6	
			PERd	%	150		142	
		C Condition (7°CD-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 temperature)	COPd		6.27		6.18	
			Pdh	kW	6.7		8.4	
			PERd	%	250.8		247.2	
			Tbiv	°C	7			
		D Condition (12°CD-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		kg	191	
	Packed unit		kg	222	
Packing	Material			Carton / Wood (pallet) / PE (Straps)	
	Weight		kg	31.5	
Heat exchanger	Length		mm	1,210	
	Rows	Quantity		1	
	Fin pitch		mm	2.6	
	Passes	Quantity		8	
	Face area		m^2	1.29	
	Stages	Quantity		88	
	Tube type			Microchannel ..	
	Fin	Type		WF & Slit fin ..	
		Treatment		High Corrosion Resistant	

2 Specifications

2 - 1 Specifications

Technical Specifications					EPSK12AW1	EPSK14AW1
Fan	Type				Propeller fan	
	Quantity				1	
	Air flow rate	Heating	High	m^3/min	96.3	
		Cooling	High	m^3/min	96.3	
	Discharge direction				Horizontal	
Fan motor	Quantity				1	
	Model				Brushless DC motor	
	Output			W	117	
	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			Compressor	
		Ps*V		Bar*l	161	
Piping connections	inch			in	G 1 1/4" (male) ..	
	inch			in	G 1 1/4" (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			kg	1.25	
	Control				Expansion valve	
	Circuits	Quantity			1	
Refrigerant oil	Type				Refer to the name plate of the compressor	
	Charged volume			l	1.3	
Piping connections	Piping length	OU - IU	Max.	m	20 (3) / 50 (4)	
	High pressure side	Design pressure		bar	32	
	Level difference	IU - OU	Max.	m	10	
	Water circuit	Filter ball valve			Yes	
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			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			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	

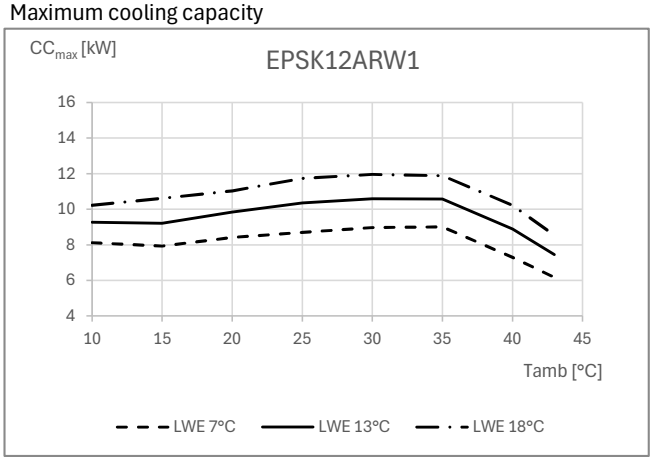
(1)Measured at LWC 47-55°C ; Ta DB/WB 7°C/6°C. |
(2)Measured at LWC 12-7°C ; Ta 35°C. |
(3)1 1/4" field piping |
(4)1 1/2" field piping

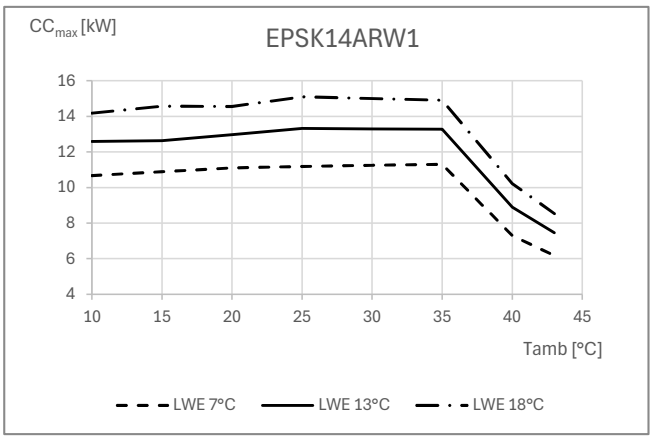
3 Capacity graphs

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]
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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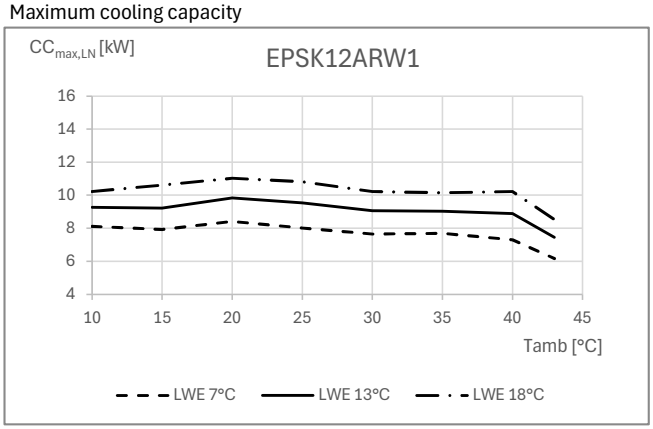
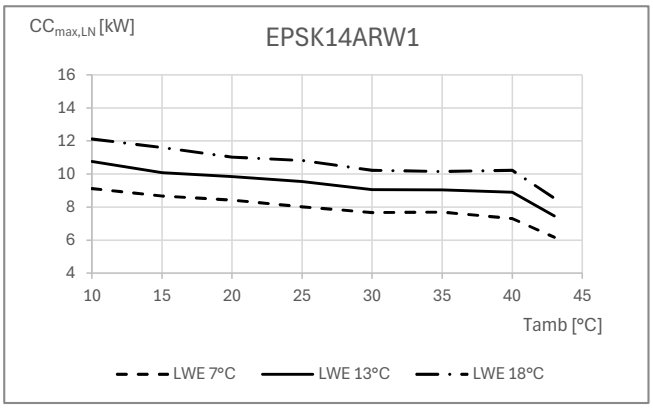
3 Capacity graphs

3 - 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 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.
Low noise level ·2·

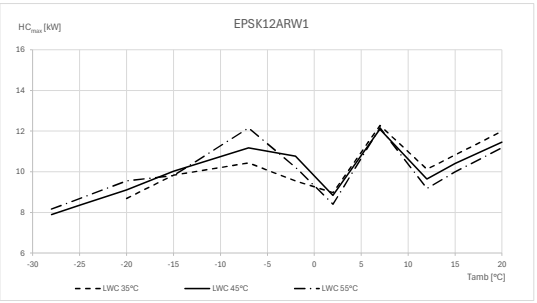
4D155530

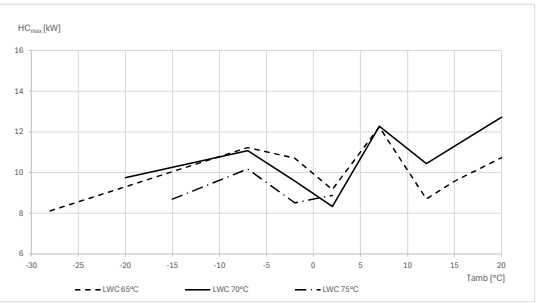
3 Capacity graphs

3 - 2 Heating Capacity Graphs

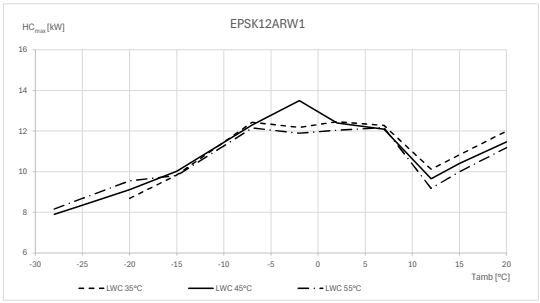
EPSK12AW1

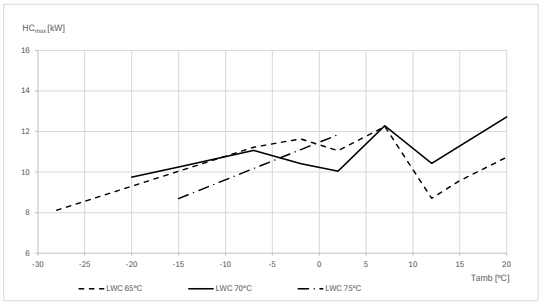
Maximum heating capacity - integrated value





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]

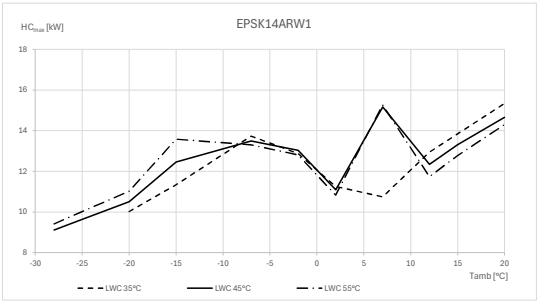
Conditions
Heating capacity

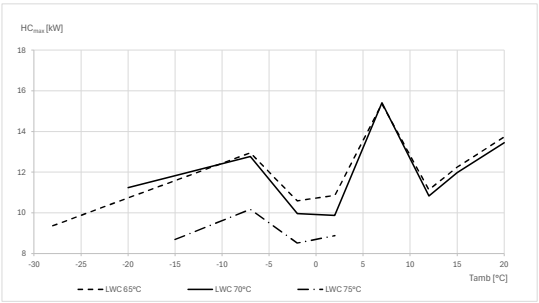
Notes
The capacity and power input is valid for -V3- models at -230-V and for for -W1- models at -400-V.
The capacity and the power input are at maximum operation.

4D155527C

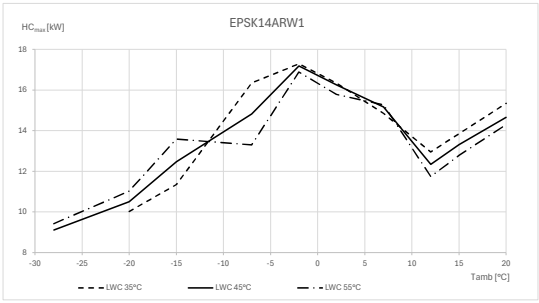
EPSK14AW1

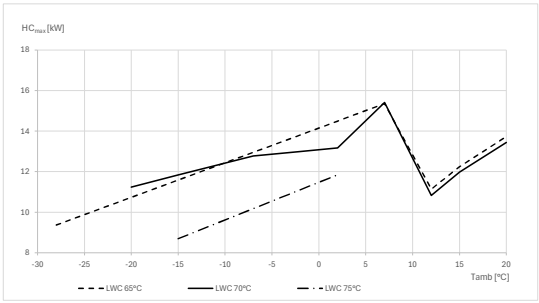
Maximum heating capacity - integrated value





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

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.

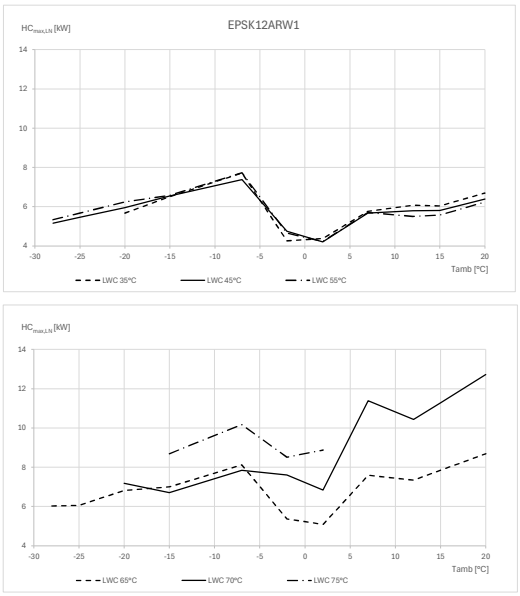
4D155527C

3 Capacity graphs

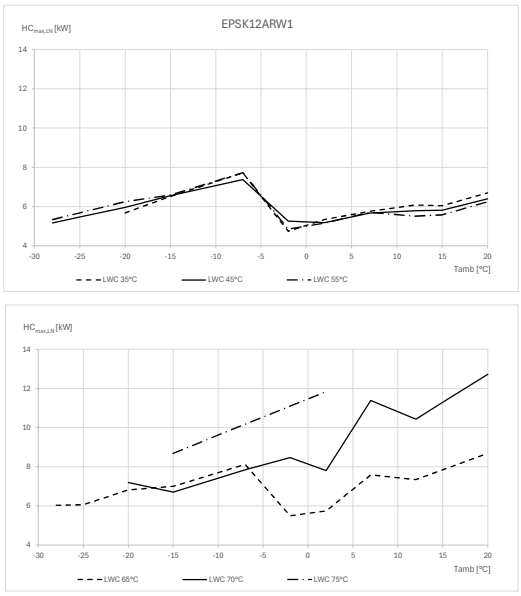
3 - 3 Heating Capacity Graphs - quiet mode

EPSK12AW1

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]

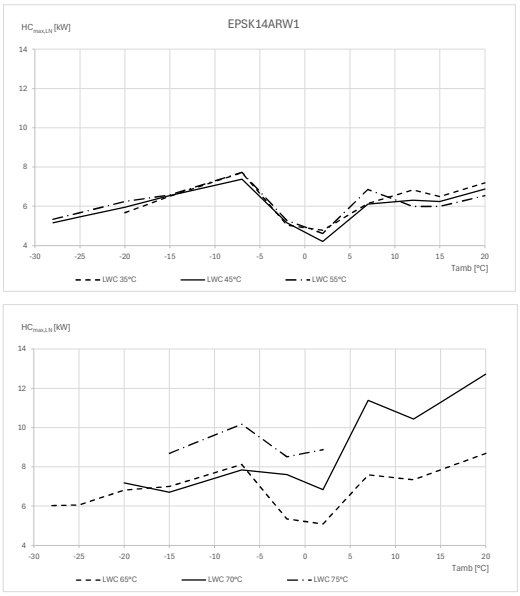
Conditions
Heating capacity

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-

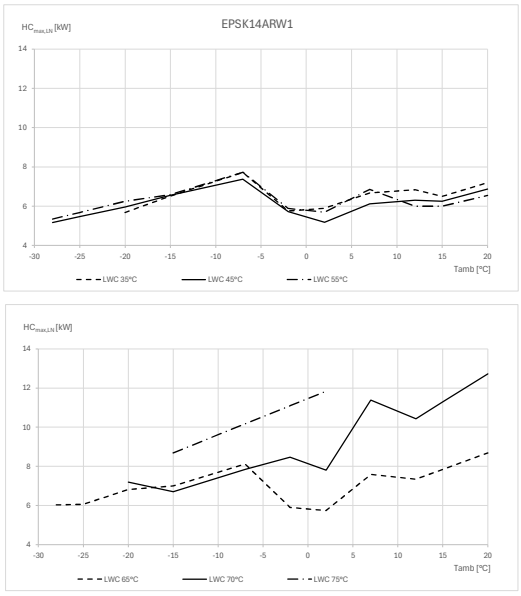
4D155528A

EPSK14AW1

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

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-

4D155528A

4 Capacity tables

4 - 1 Certification Programs

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

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°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	EHPA
-7/-8	(30)	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/-3	(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

Nominal cooling capacity

Tamb [°C]	EWE [°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	5,63	6,37	5,63	6,37	5,63	6,37	5,63	6,37	5,63	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	DAPT General

Seasonal data - cooling — LWE 7°C — Low temperature Application

		EPSK06ARV3	EPSK08ARV3	EPSK08ARW1	EPSK10ARV3	EPSK10ARW1	EPSK12ARW1	EPSK14ARW1
Pdes	[kW]	6,0	6,8	6,8	7,9	7,9	9,0	11,0
SEER	[-]	5,38	5,35	5,26	5,30	5,23	5,08	5,12
ηs,c	[%]	212	211	208	209	206	203	205
QCE	[kWh/annum]	670	764	776	895	907	1064	1289

Rated data for certification programmes - domestic hot water performance

Indoor unit / Outdoor unit		EPVX*S(U(-)18A)* EPSK(06/08/10)ARV3	EPSK(06/08/10)ARW1	EPSK(12/14)ARW1	EPVX*S(U(-)23A)* EPSK(06/08/10)ARV3	EPSK(06/08/10)ARW1	EPSK(12/14)ARW1	EPSX(B(-)+P30AF EPSK(06/08/10)ARV3	EPSK(06/08/10)ARW1	EPSK(12/14)ARW1	EPSX(B(-)+P50AF EPSK(06/08/10)ARV3	EPSK(06/08/10)ARW1	EPSK(12/14)ARW1	Used for:
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)		1:13:41		1:08:50	1:39:48		1:21:24	2:13:56		1:38:12	3:18:01		3:03:47	
R_{ref}	[°C]	46,96			47,39			45,2			44,5		44,3	Keymark
P_{es}	[W]	42,1	43,9	35,5	42,1	43,9	33,5	50,0	50,0	41,6	50,0	50,0	43,4	
V_{ref}	[l]	204			253			145,0		155,4	253,4		236,1	
η_{wh}	[%]	117,28	116,26	121,24	117,28	116,26	121,2	100,74	100,74	110,8	123,87	123,87	128,8	
COP_{DHW}	[]	2,93	2,91	3,03	2,93	2,91	3,03	2,52	2,52	2,77	3,10	3,10	3,22	

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]	$V_{ref,60}$	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		

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

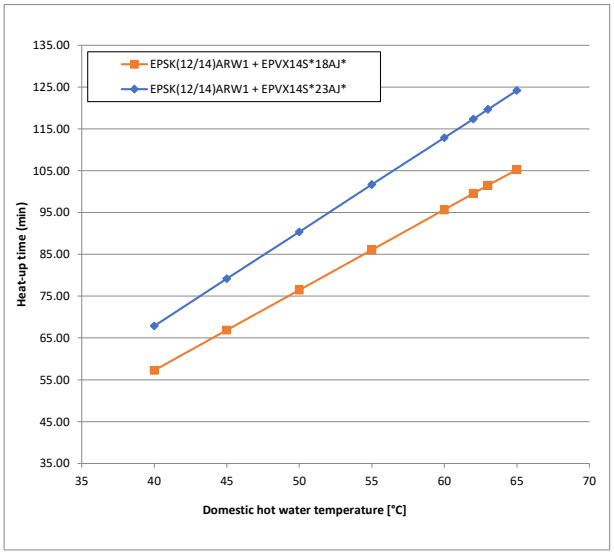
4D155514

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

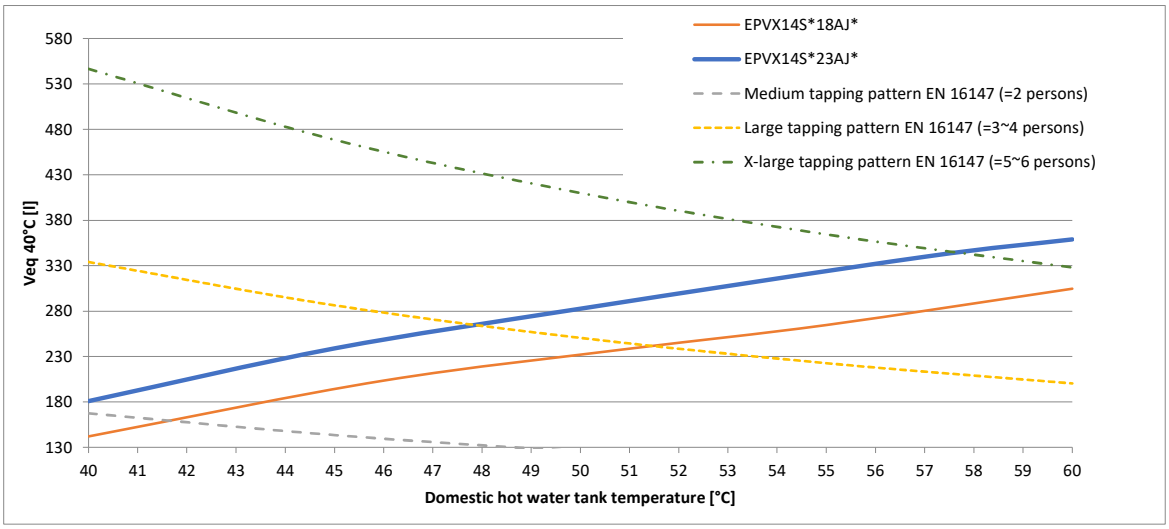
1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

4D155522A

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.

4D155522A

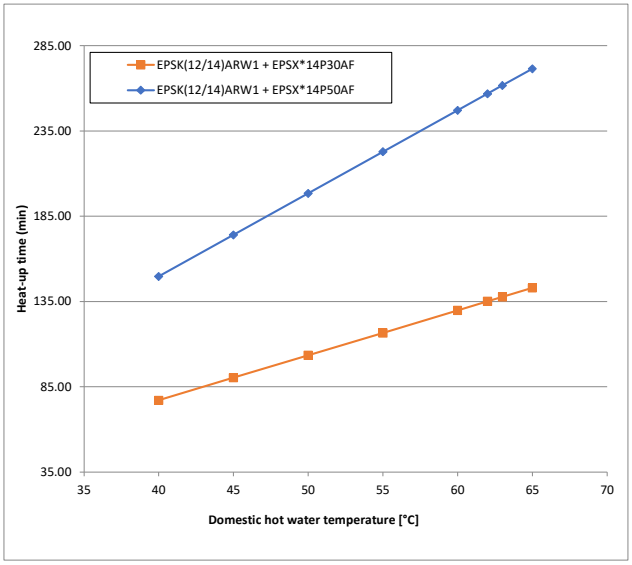
4 Capacity tables

4 - 2 Domestic Hot Water performance

EPSK12-14AW1

4

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

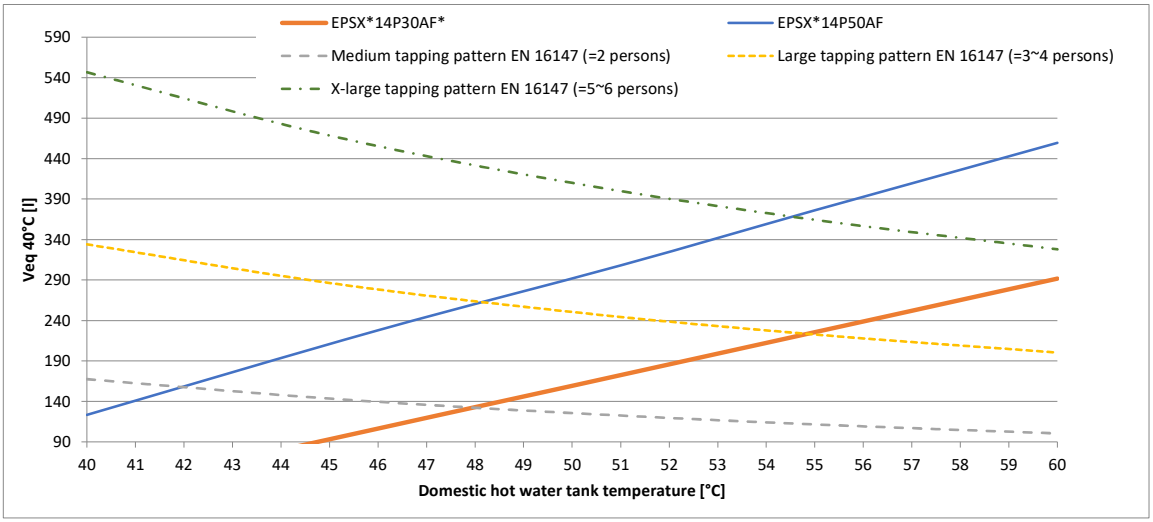
1. Time the indoor unit (**heat pump only operation**) requires to heat up the domestic hot water tank from 10°C to the indicated temperature. See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

4D155522A

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.



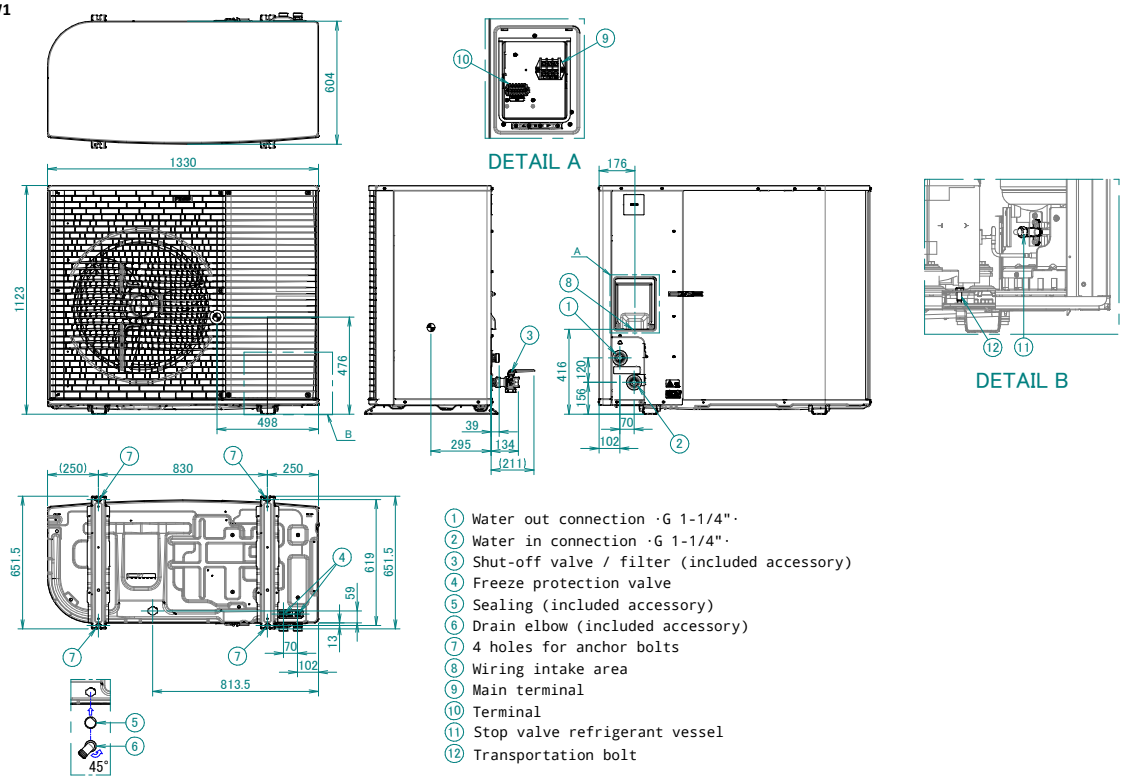
If a higher daily Veq 40°C is required, then additional heat-up cycles are required within 24 hours.
See the operation manual for more information.

4D155522A

5 Dimensional drawings

5 - 1 Dimensional Drawings

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



1. Water out connection ·G 1-1/4"·
2. Water in connection ·G 1-1/4"·
3. Shut-off valve / filter (included accessory)
4. Freeze protection valve
5. Sealing (included accessory)
6. Drain elbow (included accessory)
7. 4 holes for anchor bolts
8. Wiring intake area
9. Main terminal
10. Terminal
11. Stop valve refrigerant vessel
12. Transportation bolt

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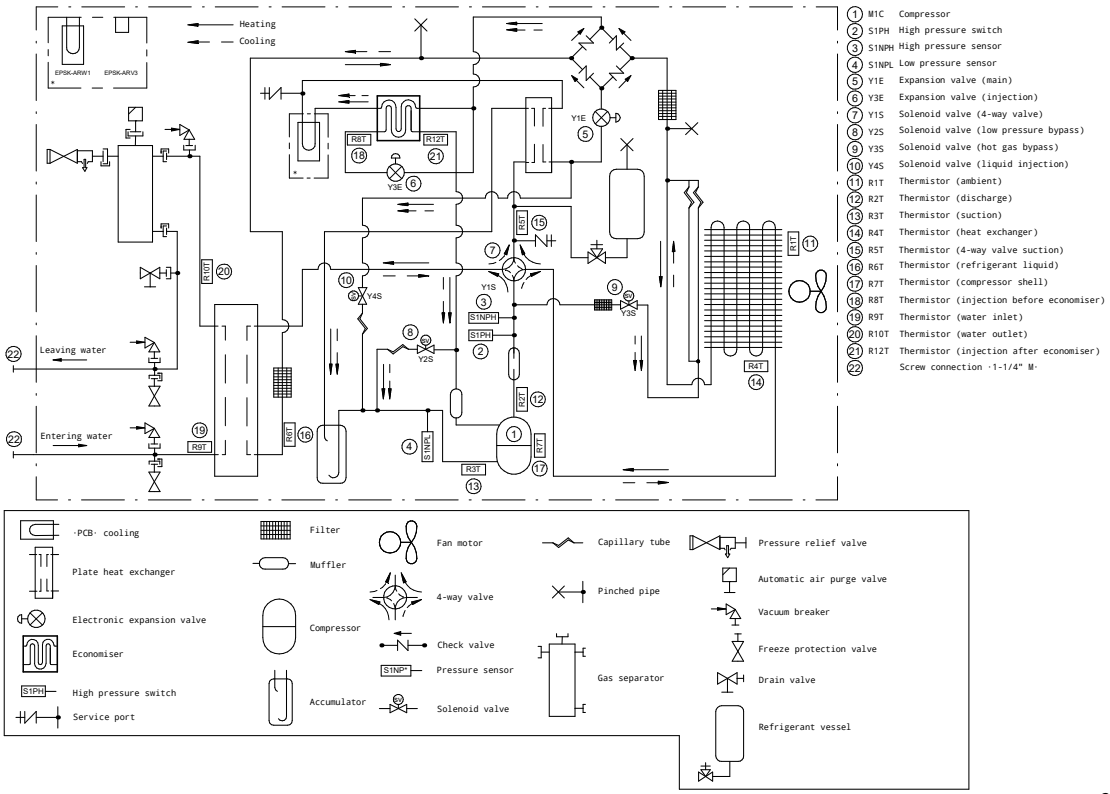
6 Piping diagrams

6 - 1 Piping Diagrams

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



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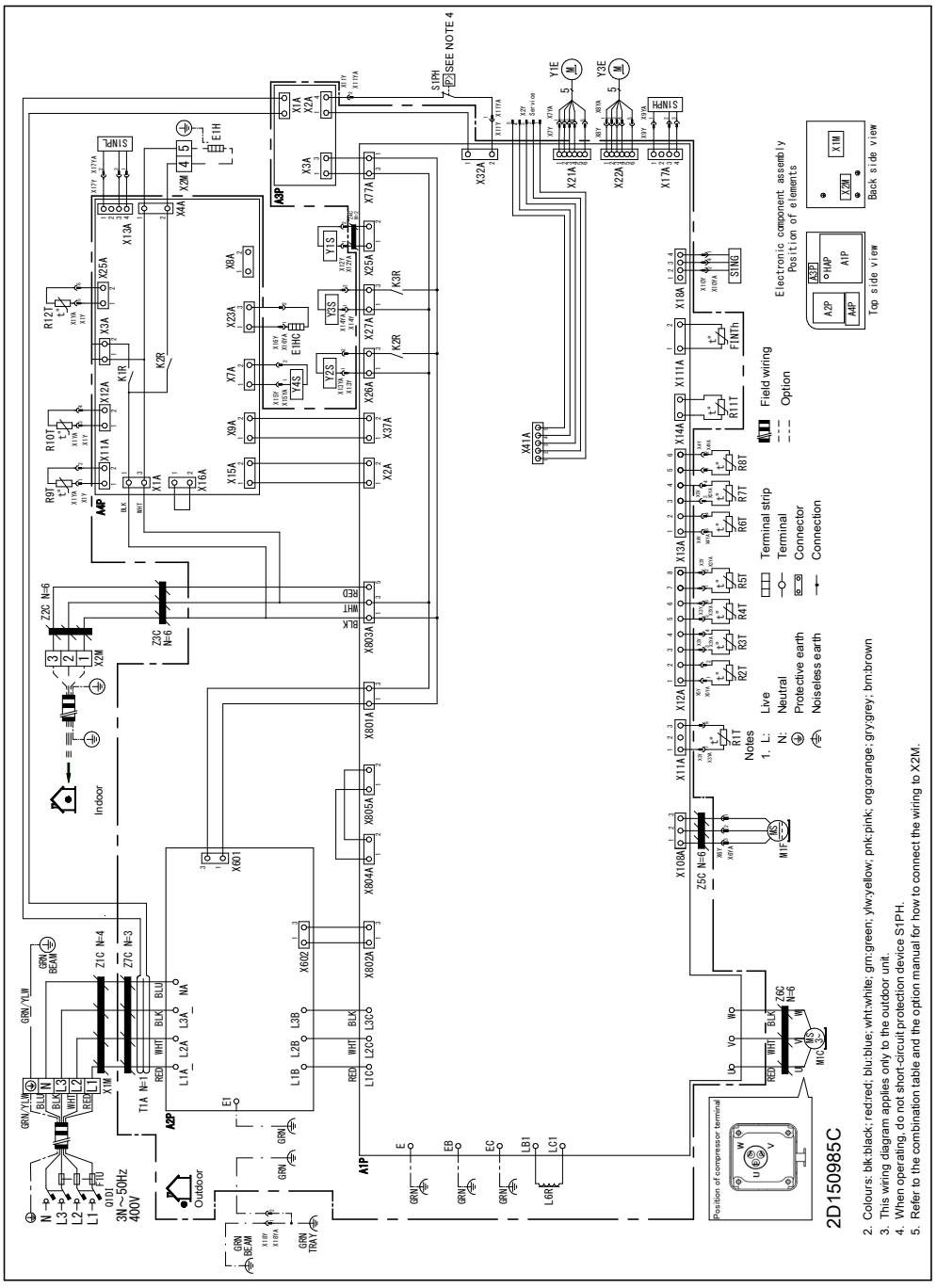
7 Wiring diagrams

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)
M1C	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
FINTh	Fin thermistor
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)
Z*C	Noise filter (ferrite core)



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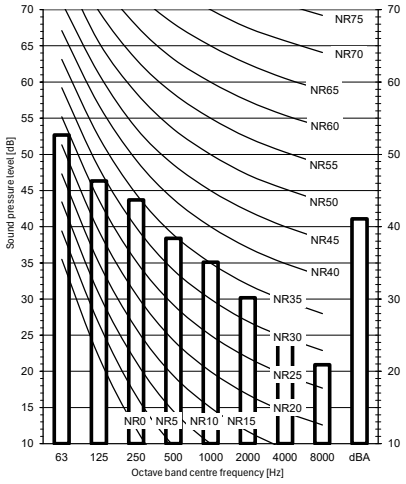
8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

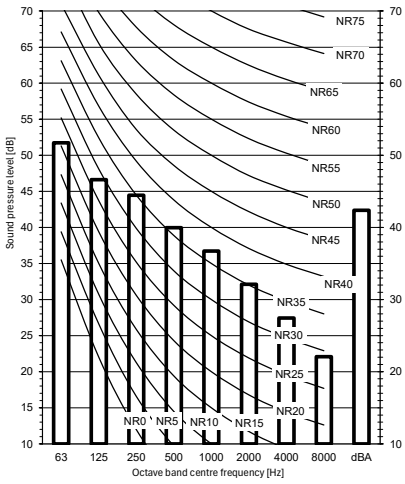
EPSK12-14AW1

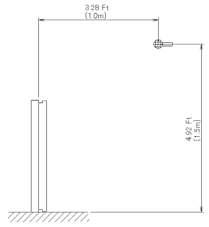
Sound pressure [dBA]
Cooling operation
Normal mode

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 µPa
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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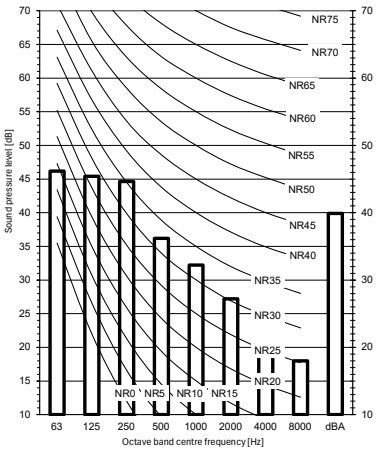
8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

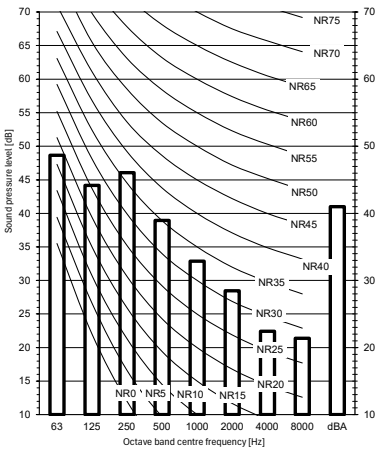
EPSK12-14AW1

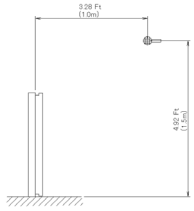
Sound pressure [dBA]
Heating operation
Normal mode

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 µPa
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)					

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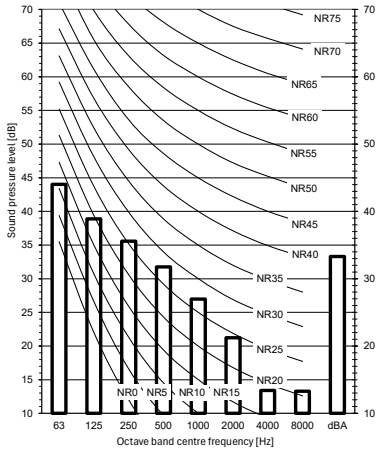
8 Sound data

8 - 3 Sound Pressure Spectrum Quiet Mode

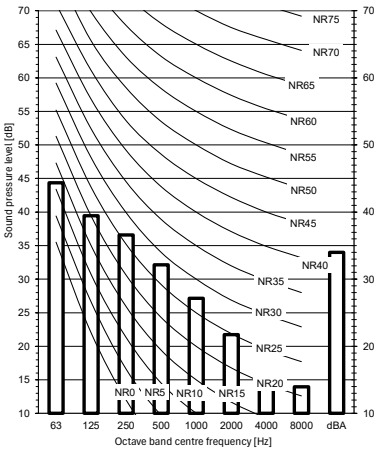
EPSK12-14AW1

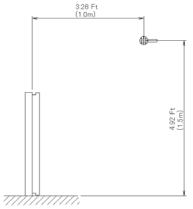
Sound pressure [dBA]
Heating operation
Quiet mode

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 µPa
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)					

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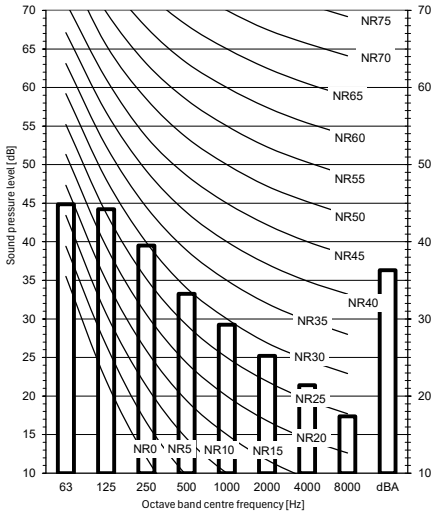
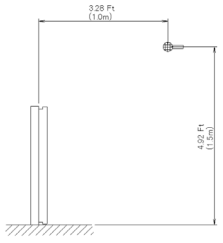
EPSK12-14AW1

Sound pressure [dBA]
Cooling operation
Quiet mode

EPSK12ARW1/EPSK14ARW1





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 µPa
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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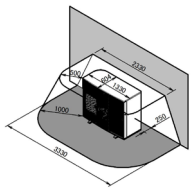
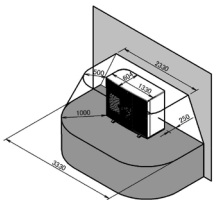
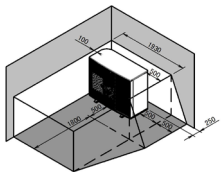
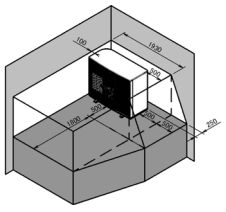
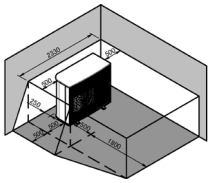
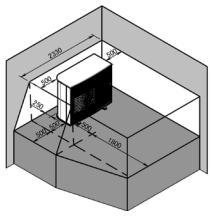
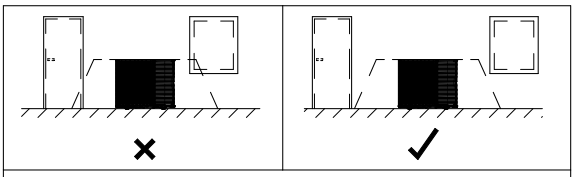
9 Installation

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	**Protective zone for on-roof installation**
Floor-standing	Elevated
	



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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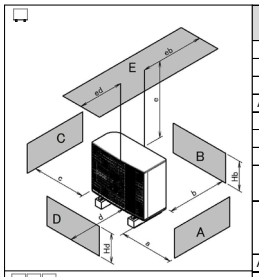
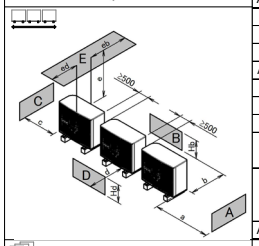
9 Installation

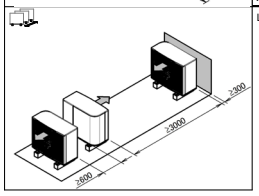
9 - 2 Installation Method in cascade applications

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

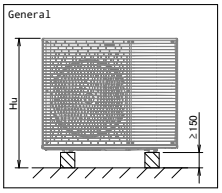
Installation requirements for ·EPSK*AR*· units







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	Hb > Hd		≥300		≥1000	≥1000		≤500
		Hb < Hd		≥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	Hb > Hd		≥300		≥1000	≥1000		≤500
		Hb < Hd		≥300		≥1000	≥1000	≤500	
	(Hb AND Hd) > Hu					X			
A, C, D, E			≥500		≥500	≥500	≥1000	≤500	



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.

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)

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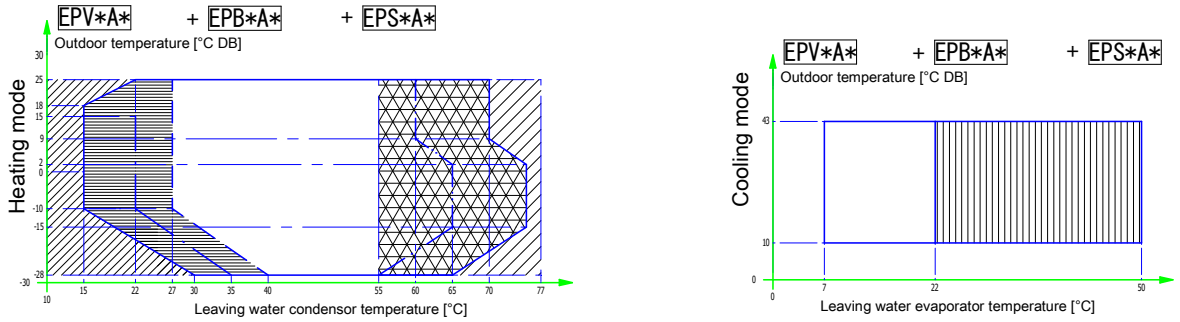
10 Operation range

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 ΔT = ·10·°C (ΔT = outlet temperature – 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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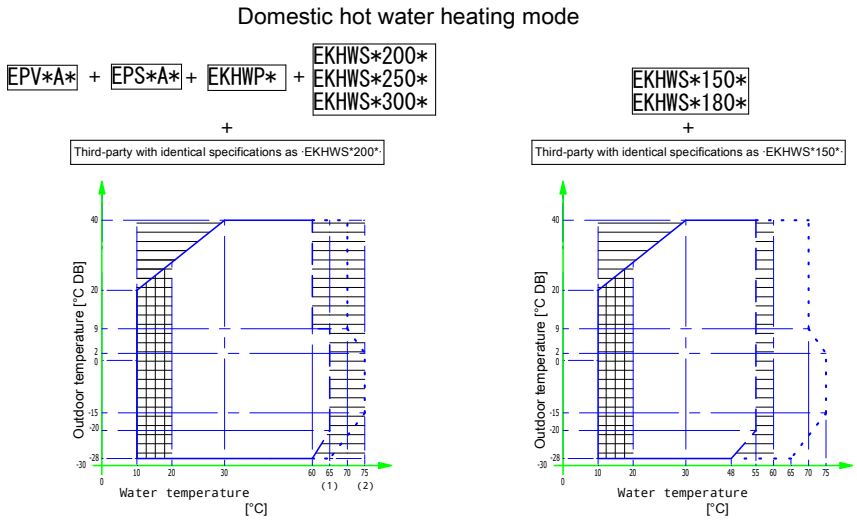
EPSK12-14AW1



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 (·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. 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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