



Daikin Altherma high
temperature split
Technical Data
EPRA014-018DW

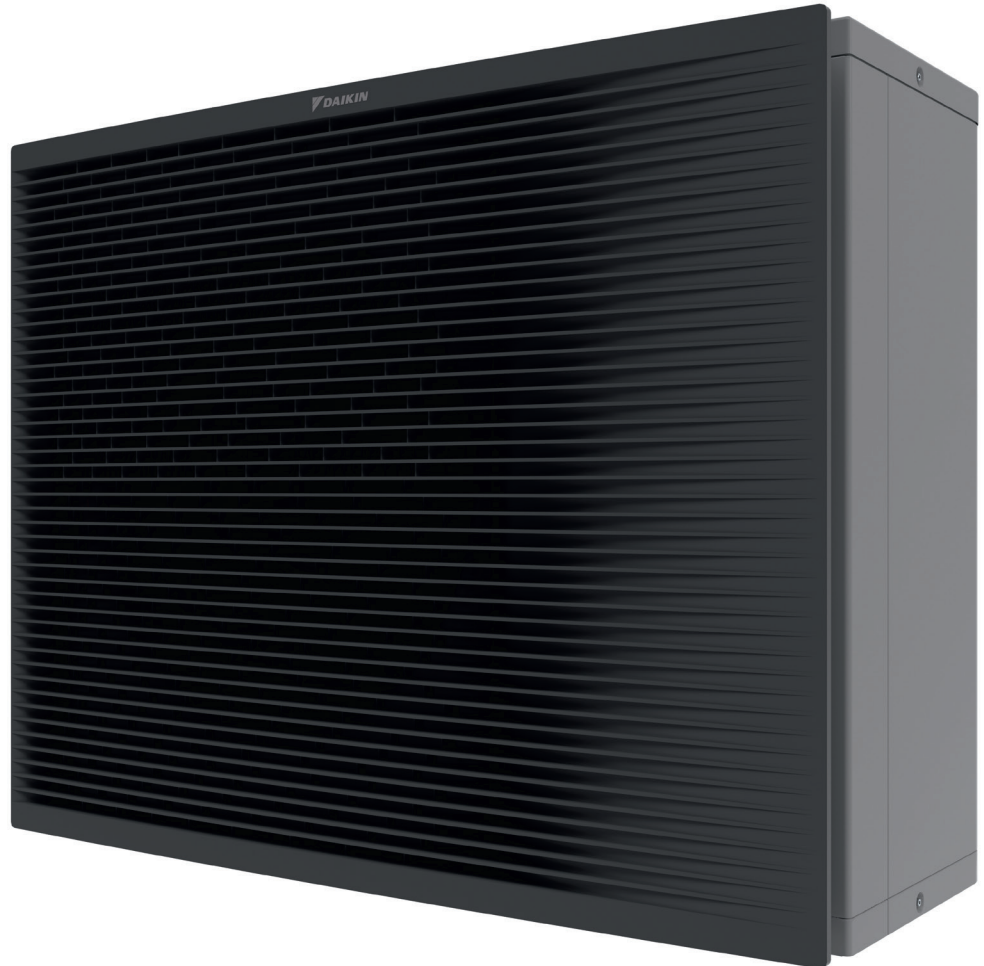


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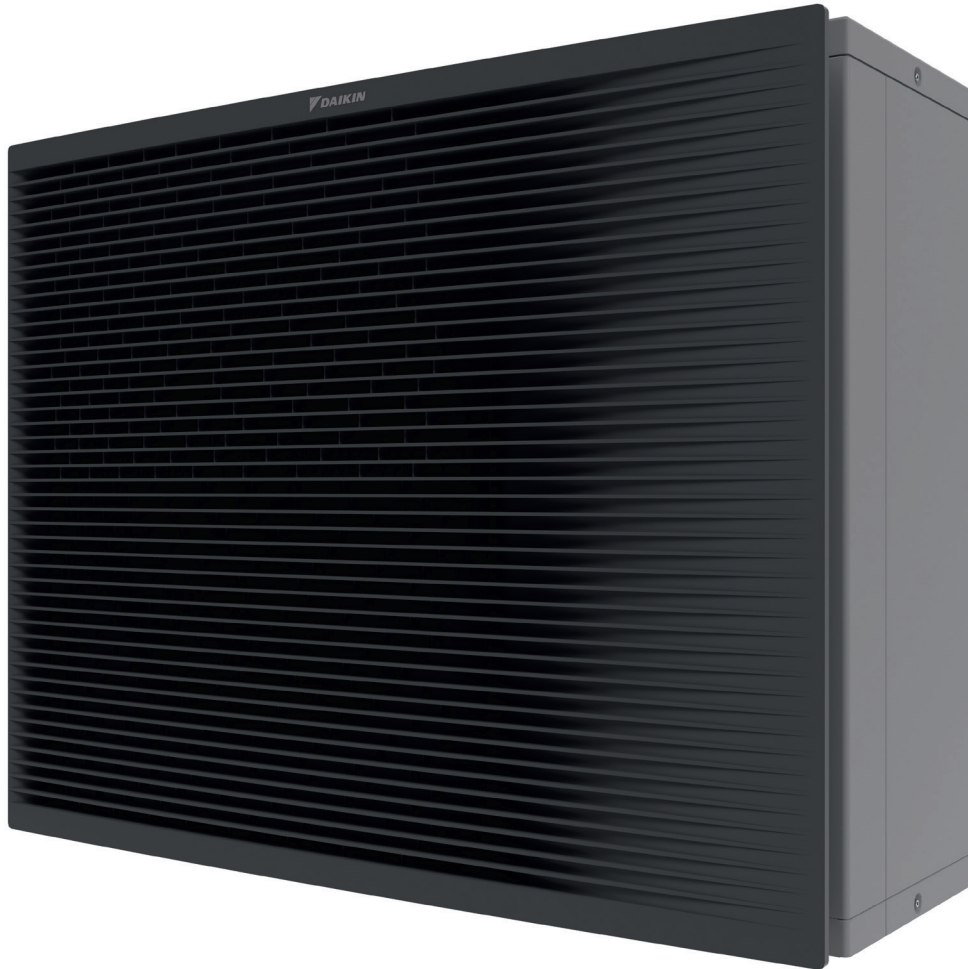
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1 Features

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- › By heat pump operation only, the outdoor unit delivers a leaving water temperature of 70°C at -15°C ambient temperature
- › By -15°C ambient temperature, the outdoor unit limits heating capacity loss
- › Outdoor unit extracts heat from the outdoor air, even at -28°C
- › The unit's sleek design blends in with other household appliances.
- › Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a 30% lower refrigerant charge

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Guaranteed
operation
down to -28°C

2 Specifications

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Technical specifications				ETBH16E6V + EPRA14DW1	ETBH16E6V + EPRA16DW1	ETBH16E6V + EPRA18DW1		
Outdoor unit				EPRA14DAW1	EPRA16DAW1	EPRA18DAW1		
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)		
	Nom.		kW	5.90 (2)	9.00 (2)			
	Max.		kW	9.75 (1)	10.44 (1)	11.60 (1)		
Power input	Heating	Min.	kW	0.84 (3)	0.90 (3)	1.00 (3)		
		Nom.	kW	1.23 (2)	1.80 (2)			
		Max.	kW	2.17 (3)	2.32 (3)	2.58 (3)		
COP				4.79 (2)		5.00 (2)		
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM						
	Nominal ESP unit	Heating	kPa	111.2 (4)	97.4 (4)			
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)			
General	Supplier/Manufacturer details		Name and address				Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium	
			Name or trademark				Daikin Europe N.V.	
	Product description			Air-to-water heat pump				Yes
				Brine-to-water heat pump				No
				Heat pump combination heater				Yes
				Low-temperature heat pump				No
				Supplementary heater integrated				Yes
			Water-to-water heat pump				No	
LW(A) Sound power level	Indoor			dB(A)	44.0			
LW(A) Sound power level (according to EN14825)	Outdoor			dB(A)	54.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825				
Space heating general	Other	Capacity control		Inverter				
		Pck (Crankcase heater mode)	kW	0.000				
		Poff (Off mode)	kW	0.031				
		Psb (Standby mode)	kW	0.042				
		Pto (Thermostat off)	kW	0.033				
	Integrated supplementary heater	Psup	kW	6.0				
		Type of energy input		Electrical				
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236			
			η_s (Seasonal space heating efficiency)	%	140			
			Prated at -10°C	kW	13			
			Qhe Annual energy consumption (GCV)	Gj	26			
			SCOP		3.57			
			Seasonal space heating eff. class		A++			
			A Condition (-7°CDB/-8°CWDB)	Cdh (Degradation heating)		1.0		

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Technical specifications				ETBH16E6V + EPRA14DW1	ETBH16E6V + EPRA16DW1	ETBH16E6V + EPRA18DW1
Space heating Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	COPd			2.43	
		Pdh	kW		11.1	
		PERd	%		97.2	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
		COPd			3.52	
		Pdh	kW		6.7	
	C Condition (7°CDB/6°CWB)	PERd	%		140.8	
		Cdh (Degradation heating)			1.0	
		COPd			4.54	
	D Condition (12°CDB/11°CWB)	Pdh	kW		6.5	
		PERd	%		181.6	
		Cdh (Degradation heating)			1.0	
	Tol (temperature operating limit)	COPd			5.97	
		Pdh	kW		5.2	
		PERd	%		238.8	
		TOL	°C		2.12	
		WTOL	°C		12.5	
	Rated heat output (bivalent temperature)	COPd			84.8	
		Psup (at Tdesign -10°C)	kW		-10	
		Tbiv	°C		55	
COPd				0.0		
Pdh		kW		2.12		
PERd		%		12.5		
Tbiv		°C		84.8		
Cold climate water outlet 55°C	General	Annual energy consumption	kWh		9,658	
		ηs (Seasonal space heating efficiency)	%		125	
		Prated at -22°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0
	B Condition (2°CDB/1°CWB)	COPd			2.74	
		Pdh	kW		7.5	
		PERd	%		109.6	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
		COPd			3.67	
Pdh		kW		5.8		
D Condition (12°CDB/11°CWB)	PERd	%		146.8		

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Technical specifications				ETBH16E6V + EPRA14DW1	ETBH16E6V + EPRA16DW1	ETBH16E6V + EPRA18DW1	
Space heating Cold climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd			1.0	
			Pdh	kW		4.69	
			PERd	%		5.6	
		D Condition (12°CDB/11°CWB)	COPd			187.6	
			Pdh	kW		6.12	
			PERd	%		6.2	
		Tol (temperature operating limit)	COPd				244.8
				Pdh	kW		1.65
				PERd	%		10.6
				TOL	°C		66.0
	G Condition (-15°CDB/-)	COPd				-22	
			Pdh	kW		55	
			PERd	%		2.17	
	Tbiv (bivalent temperature)	COPd				10.3	
			Pdh	kW		86.8	
			PERd	%		1.90	
			Tbiv	°C		11.0	
	Warm climate water outlet 55°C	Rated heat output General	Psup (at Tdesign -22°C)	kW			1.9
				Annual energy consumption	kWh		4,063
				ηs (Seasonal space heating efficiency)	%		161
Prated at 2°C				kW		13	
B Condition (2°CDB/1°CWB)		COPd				15	
			Pdh	kW		1.0	
			PERd	%		2.62	
C Condition (7°CDB/6°CWB)		COPd				11.4	
			Pdh	kW		104.8	
			PERd	%		1.0	
D Condition (12°CDB/11°CWB)	COPd				3.65		
		Pdh	kW		8.2		
		PERd	%		146.0		
Tbiv (bivalent temperature)	COPd				1.0		
		Pdh	kW		5.37		
		PERd	%		6.1		
Qhe Annual energy consumption (GCV)	COPd				214.8		
		Pdh	kW		3.18		
		PERd	%				

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Technical specifications					ETBH16E6V + EPRA14DW1	ETBH16E6V + EPRA16DW1	ETBH16E6V + EPRA18DW1
Space heating	Warm climate water outlet 55°C	Tbiv	Pdh	kW		11.0	
		(bivalent temperature)	PERd	%		127.2	
	Water outlet 45°C	H Condition (2°C/-)	Max.	kW	11.1		11.8
Average climate water outlet 35°C	General	Annual energy consumption		kWh		5,479	
		η_s (Seasonal space heating efficiency)		%		186	
		Prated at -10°C		kW		13	
		Qhe Annual energy consumption (GCV)		Gj		20	
		SCOP				4.71	
		Seasonal space heating eff. class				A+++	
		A Condition (-7°CDB/-8°CWB)	COPd			2.97	
			Pdh	kW		10.7	
			PERd	%		118.8	
			Cdh (Degradation heating)			1.0	
B Condition (2°CDB/1°CWB)	COPd			4.94			
	Pdh	kW		6.9			
	PERd	%		197.6			
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0			
	COPd			5.95			
	Pdh	kW		6.2			
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0			
	COPd			7.07			
	Pdh	kW		5.6			
Tol (temperature operating limit)	PERd	%		282.8			
	TOL	°C		-10			
	WTOL	°C		35			
	WTOL	°C		35			
Tbiv (bivalent temperature)	COPd			2.97			
	Pdh	kW		10.7			
	PERd	%		118.8			
	Tbiv	°C		-7			
Rated heat output	Psup (at Tdesign -10°C)			kW	0.4		
Cold climate water outlet 35°C	General	Annual energy consumption		kWh		7,425	
		η_s (Seasonal space heating efficiency)		%		163	

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Technical specifications				ETBH16E6V + EPRA14DW1	ETBH16E6V + EPRA16DW1	ETBH16E6V + EPRA18DW1
Space heating Cold climate water outlet 35°C	General	Prated at -22°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		27	
		A Condition (-7°CDB/-8°CWB)	COPd		3.50	
			Pdh	kW	8.0	
			PERd	%	140.0	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.07	
			Pdh	kW	4.9	
			PERd	%	202.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		6.10	
			Pdh	kW	5.3	
			PERd	%	244.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		7.03	
			Pdh	kW	5.7	
			PERd	%	281.2	
		Tol (temperature operating limit)	COPd		2.16	
			Pdh	kW	10.1	
			PERd	%	86.4	
			TOL	°C	-22	
			WTOL	°C	35	
		G Condition (-15°CDB/-)	COPd		2.62	
	Pdh	kW	10.7			
	PERd	%	104.8			
Tbiv (bivalent temperature)	COPd		2.62			
	Pdh	kW	10.7			
	PERd	%	104.8			
	Tbiv	°C	-15			
Rated heat output	Psup (at Tdesign -22°C)	kW	2.4			
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,992		
		ηs (Seasonal space heating efficiency)	%	220		
		Prated at 2°C	kW	13		
		Qhe Annual energy consumption (GCV)	Gj	11		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.51	
			Pdh	kW	10.0	
Space heating Warm climate water outlet 35°C	B Condition (2°CDB/1°CWB)	PERd	%	140.4		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.67	
			Pdh	kW	8.3	
			PERd	%	226.8	
		Tbiv (bivalent temperature)	COPd		4.96	
			Pdh	kW	9.8	
			PERd	%	198.4	
			Tbiv	°C	5	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		7.04	
	Pdh	kW	5.7			
	PERd	%	281.6			

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

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

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

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

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

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

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

2 Specifications

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Technical specifications				ETBH16E9W + EPRA14DW1	ETBH16E9W + EPRA16DW1	ETBH16E9W + EPRA18DW1	
Outdoor unit				EPRA14DAW1	EPRA16DAW1	EPRA18DAW1	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)	
	Nom.		kW	5.90 (2)	9.00 (2)		
	Max.		kW	9.75 (1)	10.44 (1)	11.60 (1)	
Power input	Heating	Min.	kW	0.84 (3)	0.90 (3)	1.00 (3)	
		Nom.	kW	1.23 (2)	1.80 (2)		
		Max.	kW	2.17 (3)	2.32 (3)	2.58 (3)	
COP				4.79 (2)		5.00 (2)	
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM					
	Nominal ESP unit	Heating	kPa	111.2 (4)	97.4 (4)		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)	25.8 (2)	
General	Supplier/Manufacturer details		Name and address Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium				
			Name or trademark Daikin Europe N.V.				
	Product description	Air-to-water heat pump		Yes			
		Brine-to-water heat pump		No			
		Heat pump combination heater		Yes			
		Low-temperature heat pump		No			
		Supplementary heater integrated		Yes			
	Water-to-water heat pump		No				
LW(A) Sound power level	Indoor		dB(A)	44.0			
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.031			
		Psb (Standby mode)	kW	0.042			
		Pto (Thermostat off)	kW	0.033			
	Integrated supplementary heater	Psup	kW	9.0			
		Type of energy input		Electrical			
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236		
			η_s (Seasonal space heating efficiency)	%	140		
			Prated at -10°C	kW	13		
			Qhe Annual energy consumption (GCV)	Gj	26		
			SCOP		3.57		
			Seasonal space heating eff. class		A++		
			A Condition (-7°CDB/-8°CWDB)	Cdh (Degradation heating)		1.0	

2 Specifications

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Technical specifications				ETBH16E9W + EPRA14DW1	ETBH16E9W + EPRA16DW1	ETBH16E9W + EPRA18DW1
Space heating Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	COPd			2.43	
		Pdh	kW		11.1	
		PERd	%		97.2	
		Cdh (Degradation heating)			1.0	
		COPd			3.52	
		Pdh	kW		6.7	
	B Condition (2°CDB/1°CWB)	PERd	%		140.8	
		Cdh (Degradation heating)			1.0	
		COPd			4.54	
	C Condition (7°CDB/6°CWB)	Pdh	kW		6.5	
		PERd	%		181.6	
		Cdh (Degradation heating)			1.0	
	D Condition (12°CDB/11°CWB)	COPd			5.97	
		Pdh	kW		5.2	
		PERd	%		238.8	
	Tol (temperature operating limit)	COPd			2.12	
		Pdh	kW		12.5	
		PERd	%		84.8	
		TOL	°C		-10	
		WTOL	°C		55	
	Rated heat output	Psup (at Tdesign -10°C)	kW		0.0	
	Tbiv (bivalent temperature)	COPd			2.12	
		Pdh	kW		12.5	
		PERd	%		84.8	
Tbiv		°C		-10		
Annual energy consumption			kWh		9,658	
Cold climate water outlet 55°C	General	ηs (Seasonal space heating efficiency)	%		125	
		Prated at -22°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		35	
		Cdh (Degradation heating)			1.0	
		COPd			2.74	
A Condition (-7°CDB/-8°CWB)	Pdh	kW		7.5		
	PERd	%		109.6		
	Cdh (Degradation heating)			1.0		
B Condition (2°CDB/1°CWB)	COPd			3.67		
	Pdh	kW		5.8		
	PERd	%		146.8		

2 Specifications

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Technical specifications				ETBH16E9W + EPRA14DW1	ETBH16E9W + EPRA16DW1	ETBH16E9W + EPRA18DW1
Space heating Cold climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0	
			Pdh	kW	4.69	
			PERd	%	5.6	
		D Condition (12°CDB/11°CWB)	COPd		187.6	
			Pdh	kW	6.12	
			PERd	%	6.2	244.8
		Tol (temperature operating limit)	COPd		1.65	
			Pdh	kW	10.6	
			PERd	%	66.0	
			TOL	°C	-22	
	G Condition (-15°CDB/-)	WTOL	°C	55		
		COPd		2.17		
		Pdh	kW	10.3		
	Tbiv (bivalent temperature)	PERd	%	86.8		
		COPd		1.90		
		Pdh	kW	11.0		
		PERd	%	76.0		
	Rated heat output	Tbiv	°C	-18		
		Psup (at Tdesign -22°C)	kW	1.9		
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,063	
ηs (Seasonal space heating efficiency)			%	161		
Prated at 2°C			kW	13		
Qhe Annual energy consumption (GCV)			Gj	15		
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0		
		COPd		2.62		
		Pdh	kW	11.4		
C Condition (7°CDB/6°CWB)		PERd	%	104.8		
		Cdh (Degradation heating)		1.0		
		COPd		3.65		
D Condition (12°CDB/11°CWB)		Pdh	kW	8.2		
		PERd	%	146.0		
		Cdh (Degradation heating)		1.0		
Tbiv (bivalent temperature)		COPd		5.37		
	Pdh	kW	6.1			
	PERd	%	214.8			
	COPd		3.18			

2 Specifications

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Technical specifications					ETBH16E9W + EPRA14DW1	ETBH16E9W + EPRA16DW1	ETBH16E9W + EPRA18DW1		
Space heating 	Warm climate water outlet 55°C	Tbiv	Pdh	kW		11.0			
		(bivalent)	PERd	%		127.2			
		temperature)	Tbiv	°C		4			
	Water outlet 45°C	H Condition (2°C/-)	Max.	kW	11.1		11.8		
	Average climate water outlet 35°C	General	Annual energy consumption	kWh			5,479		
			η_s (Seasonal space heating efficiency)	%			186		
			Prated at -10°C	kW			13		
			Qhe Annual energy consumption (GCV)	Gj			20		
			SCOP				4.71		
			Seasonal space heating eff. class				A+++		
			A Condition (-7°CDB/-8°CWB)	COPd				2.97	
				Pdh	kW			10.7	
			B Condition (2°CDB/1°CWB)	PERd	%			118.8	
				Cdh (Degradation heating)				1.0	
	COPd					4.94			
	C Condition (7°CDB/6°CWB)	Pdh	kW			6.9			
		PERd	%			197.6			
		Cdh (Degradation heating)				1.0			
	D Condition (12°CDB/11°CWB)	COPd				5.95			
		Pdh	kW			6.2			
		PERd	%			238.0			
	Tol (temperature operating limit)	Cdh (Degradation heating)				1.0			
		COPd				7.07			
		Pdh	kW			5.6			
	Tbiv (bivalent temperature)	PERd	%			282.8			
		TOL	°C			-10			
		WTOL	°C			35			
Rated heat output	COPd				2.97				
	Pdh	kW			10.7				
	PERd	%			118.8				
Cold climate water outlet 35°C	General	Tbiv	°C		-7				
		Psup (at Tdesign -10°C)	kW			0.4			
Cold climate water outlet 35°C	General	Annual energy consumption	kWh			7,425			
		η_s (Seasonal space heating efficiency)	%			163			

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Technical specifications				ETBH16E9W + EPRA14DW1	ETBH16E9W + EPRA16DW1	ETBH16E9W + EPRA18DW1			
Space heating Cold climate water outlet 35°C	General	Prated at -22°C	kW		13				
			Gj		27				
			A Con- dition (-7°CDB/ B/-8°CWB)	COPd		3.50			
				Pdh	kW	8.0			
				PERd	%	140.0			
			B Con- dition (2°CDB/ B/1°CWB)	Cdh (Degradation heating)		1.0			
				COPd		5.07			
				Pdh	kW	4.9			
				PERd	%	202.8			
			C Con- dition (7°CDB/ B/6°CWB)	Cdh (Degradation heating)		1.0			
				COPd		6.10			
				Pdh	kW	5.3			
				PERd	%	244.0			
			D Con- dition (12°CDB/ B/11°CWB)	Cdh (Degradation heating)		1.0			
				COPd		7.03			
				Pdh	kW	5.7			
				PERd	%	281.2			
			Tol (tem- perature operating limit)		COPd		2.16		
					Pdh	kW	10.1		
					PERd	%	86.4		
					TOL	°C	-22		
					WTOL	°C	35		
G Con- dition (-15°CDB/-)		COPd		2.62					
		Pdh	kW	10.7					
		PERd	%	104.8					
	Tbiv (bivalent tempera- ture)		COPd		2.62				
			Pdh	kW	10.7				
		PERd	%	104.8					
	Tbiv	°C	-15						
Rated heat output		Psup (at Tdesign -22°C)	kW	2.4					
Warm climate water out- let 35°C	General	Annual energy consumption	kWh	2,992					
			%	220					
			Prated at 2°C	kW	13				
			Qhe Annual energy consumption (GCV)	Gj	11				
B Con- dition (2°CDB/ B/1°CWB)	Cdh (Degradation heating)		1.0						
		COPd	3.51						
C Con- dition (7°CDB/ B/6°CWB)	Cdh (Degradation heating)		1.0						
		COPd	5.67						
Tbiv (bivalent tempera- ture)	COPd		4.96						
		Pdh	kW	9.8					
D Con- dition (12°CDB/ B/11°CWB)	Cdh (Degradation heating)		1.0						
		COPd	7.04						
	Pdh	kW	5.7						
	PERd	%	281.6						
Space heating Warm climate water out- let 35°C	B Condition (2°CDB/1°CWB)	C Con- dition (7°CDB/ B/6°CWB)	Cdh (Degradation heating)		1.0				
				COPd	5.67				
				Pdh	kW	8.3			
				PERd	%	226.8			
				Tbiv	COPd	4.96			
				Pdh	kW	9.8			
				PERd	%	198.4			
				Tbiv	°C	5			
				D Con- dition (12°CDB/ B/11°CWB)	Cdh (Degradation heating)		1.0		
				COPd		7.04			
				Pdh		kW	5.7		
	PERd	%	281.6						

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

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

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

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


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

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

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

2 Specifications

1 - 1 EPRA014-018DW

Technical specifications					ETBX16E6V + EPRA14DW1	ETBX16E6V + EPRA16DW1	ETBX16E6V + EPRA18DW1	
Outdoor unit					EPRA14DAW1	EPRA16DAW1	EPRA18DAW1	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)		
	Nom.		kW	5.90 (2)	9.00 (2)			
	Max.		kW	9.75 (1)	10.44 (1)	11.60 (1)		
Cooling capacity	Nom.		kW	10.6 (3) / 6.90 (4)	11.5 (3) / 7.88 (4)	12.5 (3) / 8.86 (4)		
Power input	Heating	Min.	kW	0.84 (5)	0.90 (5)	1.00 (5)		
		Nom.	kW	1.23 (2)	1.80 (2)			
		Max.	kW	2.17 (5)	2.32 (5)	2.58 (5)		
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)	2.80 (3) / 2.93 (4)	3.05 (3) / 3.31 (4)		
COP					4.79 (2)	5.00 (2)		
EER					4.13 (3) / 2.70 (4)	4.11 (3) / 2.69 (4)	4.09 (3) / 2.68 (4)	
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM			
	Nominal ESP unit	Heating		kPa	111.2 (6)	97.4 (6)		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)	25.8 (2)		
General	Supplier/Manufacturer details		Name and address					Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
			Name or trademark					Daikin Europe N.V.
	Product description	Air-to-water heat pump		Yes				
		Brine-to-water heat pump		No				
		Heat pump combination heater		Yes				
		Low-temperature heat pump		No				
		Supplementary heater integrated		Yes				
		Water-to-water heat pump		No				
	LW(A) Sound power level	Indoor		dB(A)	44.0			
	LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0			
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Other	Capacity control			Inverter			
		Pck (Crankcase heater mode)		kW	0.000			
		Poff (Off mode)		kW	0.031			
		Psb (Standby mode)		kW	0.042			
		Pto (Thermostat off)		kW	0.033			
	Integrated supplementary heater	Psup		kW	6.0			
		Type of energy input			Electrical			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,122			
			η_s (Seasonal space heating efficiency)	%	142			
			Prated at -10°C	kW	13			
			Qhe Annual energy consumption (GCV)	Gj	26			

2 Specifications

1 - 1 EPRA014-018DW

Technical specifications				ETBX16E6V + EPRA14DW1	ETBX16E6V + EPRA16DW1	ETBX16E6V + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	SCOP			3.63			
		Seasonal space heating eff. class			A++			
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0		
			COPd			2.43		
			Pdh kW			11.1		
		B Condition (2°CDB/1°CWB)	PERd %			97.2		
			Cdh (Degradation heating)			1.0		
			COPd			3.52		
		C Condition (7°CDB/6°CWB)	Pdh kW			6.7		
			PERd %			140.8		
			Cdh (Degradation heating)			1.0		
		D Condition (12°CDB/11°CWB)	COPd			4.54		
			Pdh kW			6.5		
			PERd %			181.6		
		Tol (temperature operating limit)	General	Cdh (Degradation heating)			1.0	
				COPd			5.97	
				Pdh kW			5.2	
				PERd %			238.8	
				TOL °C			-10	
		Rated heat output (bivalent temperature)	General	WTOL °C			55	
				Psup (at Tdesign -10°C) kW			0.0	
				COPd			2.12	
				Pdh kW			12.5	
PERd %					84.8			
Tbiv °C					-10			
Cold climate water outlet 55°C	General			Annual energy consumption kWh			9,589	
				ηs (Seasonal space heating efficiency) %			126	
				Prated at -22°C kW			13	
				Qhe Annual energy consumption (GCV) GJ			35	
A Condition (-7°CDB/-8°CWB)	General	Cdh (Degradation heating)			1.0			
		COPd			2.74			
		Pdh kW			7.5			
B Condition (2°CDB/1°CWB)	General	PERd %			109.6			
		Cdh (Degradation heating)			1.0			

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1 - 1 EPRA014-018DW

Technical specifications				ETBX16E6V + EPRA14DW1	ETBX16E6V + EPRA16DW1	ETBX16E6V + EPRA18DW1		
Space heating Cold climate water outlet 55°C	B Con- dition (2°CDB/ B/1°CWB)	COPd			3.67			
			Pdh	kW		5.8		
			PERd	%		146.8		
		C Con- dition (7°CDB/ B/6°CWB)	Cdh (Degradation heating)	COPd			1.0	
				Pdh	kW		4.69	
				PERd	%		187.6	
		D Con- dition (12°CDB/ B/11°CWB)	COPd				6.12	
				Pdh	kW		6.2	
				PERd	%		244.8	
		Tol (tem- perature operating limit)	COPd				1.65	
	Pdh			kW		10.6		
	PERd			%		66.0		
	TOL			°C		-22		
	WTOL					55		
	G Con- dition (-15°CDB/-)	COPd				2.17		
			Pdh	kW		10.3		
			PERd	%		86.8		
	Tbiv (bivalent tempera- ture)	COPd				1.90		
			Pdh	kW		11.0		
			PERd	%		76.0		
			Tbiv	°C		-18		
	Rated heat output		Psup (at Tdesign -22°C)	kW		1.9		
Warm climate water outlet 55°C	General	Annual energy consumption	kWh		3,926			
			ηs (Seasonal space heating efficiency)	%		167		
			Prated at 2°C	kW		13		
			Qhe Annual energy consumption (GCV)	Gj		14		
	B Con- dition (2°CDB/ B/1°CWB)	Cdh (Degradation heating)	COPd			1.0		
			Pdh	kW		2.62		
			PERd	%		104.8		
	C Con- dition (7°CDB/ B/6°CWB)	Cdh (Degradation heating)	COPd			1.0		
			Pdh	kW		3.65		
			PERd	%		8.2		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd			146.0		
						1.0		
			COPd			5.37		

2 Specifications

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Technical specifications					ETBX16E6V + EPRA14DW1	ETBX16E6V + EPRA16DW1	ETBX16E6V + EPRA18DW1	
Space heating	Warm climate	D Condition (12°CDB/11°CWB)	Pdh	kW		6.1		
			PERd	%		214.8		
	water outlet 55°C	Tbiv (bivalent temperature)	COPd			3.18		
			Pdh	kW		11.0		
			PERd	%		127.2		
			Tbiv	°C		4		
	Water outlet 45°C (-2°C/-)	H Condition	Max.	kW	11.1		11.8	
	Average climate water outlet 35°C	General	Annual energy consumption		kWh		5,366	
			ηs (Seasonal space heating efficiency)		%		190	
			Prated at -10°C		kW		13	
		Qhe Annual energy consumption (GCV)		Gj		19		
		SCOP				4.81		
		Seasonal space heating eff. class				A+++		
A Condition (-7°CDB/-8°CWB)		COPd				2.97		
		Pdh	kW			10.7		
B Condition (2°CDB/1°CWB)		PERd	%			118.8		
		Cd (Degradation heating)				1.0		
	COPd					4.94		
C Condition (7°CDB/6°CWB)	Pdh	kW			6.9			
		PERd	%		197.6			
	Cd (Degradation heating)				1.0			
D Condition (12°CDB/11°CWB)	COPd				5.95			
	Pdh	kW			6.2			
		PERd	%		238.0			
Tol (temperature operating limit)	Cd (Degradation heating)				1.0			
		COPd			7.07			
		Pdh	kW			5.6		
Tbiv (bivalent temperature)		PERd	%		282.8			
	COPd				2.88			
	Pdh	kW			12.1			
	PERd	%			115.2			
	TOL	°C			-10			
	WTOL	°C			35			
	COPd				2.97			
	Pdh	kW			10.7			
	PERd	%			118.8			
	Tbiv	°C			-7			

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Technical specifications				ETBX16E6V + EPRA14DW1	ETBX16E6V + EPRA16DW1	ETBX16E6V + EPRA18DW1		
Space heating Cold climate water outlet 35°C	Average climate water outlet	Rated heat output	Psup (at Tdesign -10°C) kW		0.4			
	General Annual energy consumption kWh	Annual energy consumption kWh ηs (Seasonal space heating efficiency) % Prated at -22°C kW Qhe Annual energy consumption (GCV) GJ			7,356			
						165		
						13		
						26		
			A Condition (-7°CDB/-8°CWB)	COPd Pdh kW PERd %			3.50	
							8.0	
							140.0	
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			1.0	
							5.07	
							4.9	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			1.0			
					6.10			
					5.3			
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			1.0			
					7.03			
					5.7			
	Tol (temperature operating limit)	COPd Pdh kW PERd % TOL °C WTOL °C			281.2			
					2.16			
					10.1			
	G Condition (-15°CDB/-)	COPd Pdh kW PERd %			86.4			
					-22			
					35			
	Tbiv (bivalent temperature)	COPd Pdh kW PERd % Tbiv °C			2.62			
				10.7				
				104.8				
Rated heat output	Psup (at Tdesign -22°C) kW			2.62				
				10.7				
				104.8				
Warm climate water outlet 35°C	General Annual energy consumption kWh ηs (Seasonal space heating efficiency) % Prated at 2°C kW Qhe Annual energy consumption (GCV) GJ			2.4				
				2,855				
				231				
				13				
				10				
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			1.0		
						3.51		
						10.0		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			140.4		
						1.0		
				5.67				
Tbiv (bivalent temperature)	COPd Pdh kW PERd % Tbiv °C			8.3				
				226.8				
				4.96				
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd Pdh kW PERd %			9.8				
				198.4				
				5				
				1.0				
				7.04				
				5.7				
				281.6				

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

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

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

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

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

2 Specifications

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(6)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

2

Technical specifications				ETBX16E9W + EPRA14DW1	ETBX16E9W + EPRA16DW1	ETBX16E9W + EPRA18DW1
Outdoor unit				EPRA14DAW1	EPRA16DAW1	EPRA18DAW1
Heating capacity	Min.	kW		3.70 (1)	3.96 (1)	4.40 (1)
	Nom.	kW		5.90 (2)	9.00 (2)	
	Max.	kW		9.75 (1)	10.44 (1)	11.60 (1)
Cooling capacity	Nom.	kW		10.6 (3) / 6.90 (4)	11.5 (3) / 7.88 (4)	12.5 (3) / 8.86 (4)
Power input	Heating	Min.	kW	0.84 (5)	0.90 (5)	1.00 (5)
		Nom.	kW	1.23 (2)	1.80 (2)	
	Cooling	Max.	kW	2.17 (5)	2.32 (5)	2.58 (5)
		Nom.	kW	2.55 (3) / 2.56 (4)	2.80 (3) / 2.93 (4)	3.05 (3) / 3.31 (4)
COP				4.79 (2)	5.00 (2)	
EER				4.13 (3) / 2.70 (4)	4.11 (3) / 2.69 (4)	4.09 (3) / 2.68 (4)
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM				
	Nominal ESP unit	Heating	kPa	111.2 (6)	97.4 (6)	
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)	
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium		
		Name or trademark		Daikin Europe N.V.		
	Product description	Air-to-water heat pump		Yes		
		Brine-to-water heat pump		No		
		Heat pump combination heater		Yes		
		Low-temperature heat pump		No		
		Supplementary heater integrated		Yes		
	Water-to-water heat pump		No			
LW(A) Sound power level	Indoor		dB(A)	44.0		
	Outdoor		dB(A)	54.0		
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825		
Space heating general	Other	Capacity control		Inverter		
		Pck (Crankcase heater mode)	kW	0.000		
		Poff (Off mode)	kW	0.031		
		Psb (Standby mode)	kW	0.042		
		Pto (Thermostat off)	kW	0.033		
	Integrated supplementary heater	Psup	kW	9.0		
		Type of energy input		Electrical		
	Space heating climate water outlet 55°C	Average	General	Annual energy consumption	kWh	7,122
η_s (Seasonal space heating efficiency)				%	142	
Prated at -10°C				kW	13	
Qhe Annual energy consumption (GCV)				Gj	26	


2 Specifications

1 - 1 EPRA014-018DW

Technical specifications				ETBX16E9W + EPRA14DW1	ETBX16E9W + EPRA16DW1	ETBX16E9W + EPRA18DW1	
Space heating Average climate water outlet 55°C	General	SCOP			3.63		
		Seasonal space heating eff. class			A++		
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0	
			COPd			2.43	
			Pdh kW			11.1	
		B Condition (2°CDB/1°CWB)	PERd %			97.2	
			Cdh (Degradation heating)			1.0	
			COPd			3.52	
		C Condition (7°CDB/6°CWB)	Pdh kW			6.7	
			PERd %			140.8	
			Cdh (Degradation heating)			1.0	
		D Condition (12°CDB/11°CWB)	COPd			4.54	
			Pdh kW			6.5	
			PERd %			181.6	
		Tol (temperature operating limit)	Cdh (Degradation heating)			1.0	
			COPd			5.97	
			Pdh kW			5.2	
		Rated heat output	PERd %			238.8	
			TOL °C			55	
			WTOL °C			55	
		(bivalent temperature)	Psup (at Tdesign -10°C) kW			0.0	
			Tbiv COPd			2.12	
			Pdh kW			12.5	
		Cold climate water outlet 55°C	PERd %			84.8	
			Tbiv °C			-10	
			WTOL °C			55	
		General	Annual energy consumption kWh			9,589	
ηs (Seasonal space heating efficiency) %				126			
Prated at -22°C kW				13			
Qhe Annual energy consumption (GCV) GJ				35			
A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0		
	COPd				2.74		
	Pdh kW				7.5		
B Condition (2°CDB/1°CWB)	PERd %				109.6		
	Cdh (Degradation heating)				1.0		

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1 - 1 EPRA014-018DW

Technical specifications				ETBX16E9W + EPRA14DW1	ETBX16E9W + EPRA16DW1	ETBX16E9W + EPRA18DW1
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	COPd		3.67	
			Pdh	kW	5.8	
			PERd	%	146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		4.69	
			Pdh	kW	5.6	
		D Condition (12°CDB/11°CWB)	COPd		6.12	
			Pdh	kW	6.2	
			PERd	%	244.8	
		Tol (temperature operating limit)	COPd		1.65	
	Pdh		kW	10.6		
	PERd		%	66.0		
	TOL		°C	-22		
	G Condition (-15°CDB/-)	COPd		55		
		Pdh	kW	2.17		
		PERd	%	10.3		
	Tbiv (bivalent temperature)	PERd	%	86.8		
		COPd		1.90		
		Pdh	kW	11.0		
		PERd	%	76.0		
Rated heat output	Tbiv	°C	-18			
	Psup (at Tdesign -22°C)	kW	1.9			
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	3,926		
		ηs (Seasonal space heating efficiency)	%	167		
		Prated at 2°C	kW	13		
		Qhe Annual energy consumption (GCV)	Gj	14		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
		COPd		2.62		
		Pdh	kW	11.4		
	C Condition (7°CDB/6°CWB)	PERd	%	104.8		
		Cdh (Degradation heating)		1.0		
		COPd		3.65		
	D Condition (12°CDB/11°CWB)	Pdh	kW	8.2		
		PERd	%	146.0		
		Cdh (Degradation heating)		1.0		
			COPd		5.37	

2 Specifications



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Technical specifications					ETBX16E9W + EPRA14DW1	ETBX16E9W + EPRA16DW1	ETBX16E9W + EPRA18DW1			
Space heating	Warm climate	D Condition (12°CDB/11°CWB)	Pdh	kW		6.1				
			PERd	%		214.8				
	water outlet 55°C	Tbiv (bivalent temperature)		COPd			3.18			
				Pdh	kW		11.0			
				PERd	%		127.2			
				Tbiv	°C		4			
	Water outlet 45°C	H Condition (2°C/-)	Max.	kW	11.1		11.8			
	Average climate water outlet 35°C	General		Annual energy consumption	kWh		5,366			
				η_s (Seasonal space heating efficiency)	%		190			
				Prated at -10°C	kW		13			
				Qhe Annual energy consumption (GCV)	Gj		19			
				SCOP			4.81			
				Seasonal space heating eff. class			A+++			
				A Condition (-7°CDB/-8°CWB)		COPd			2.97	
						Pdh	kW		10.7	
						PERd	%		118.8	
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		COPd			4.94
	Pdh	kW					6.9			
	PERd	%					197.6			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		COPd			5.95			
				Pdh	kW		6.2			
PERd				%		238.0				
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		COPd			7.07				
			Pdh	kW		5.6				
			PERd	%		282.8				
Tol (temperature operating limit)			COPd			2.88				
			Pdh	kW		12.1				
			PERd	%		115.2				
			TOL	°C		-10				
			WTOL	°C		35				
Tbiv (bivalent temperature)			COPd			2.97				
			Pdh	kW		10.7				
			PERd	%		118.8				
			Tbiv	°C		-7				

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Technical specifications			ETBX16E9W + EPRA14DW1	ETBX16E9W + EPRA16DW1	ETBX16E9W + EPRA18DW1		
Space heating 	Average climate water outlet	Rated heat output	Psup (at Tdesign -10°C) kW		0.4		
	Cold climate water outlet 35°C	General	Annual energy consumption kWh		7,356		
			ηs (Seasonal space heating efficiency) %			165	
			Prated at -22°C kW			13	
			Qhe Annual energy consumption (GCV) GJ			26	
			A Condition (-7°CDB/-8°CWB)	COPd			3.50
				Pdh kW			8.0
				PERd %			140.0
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0
				COPd			5.07
				Pdh kW			4.9
		PERd %			202.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
		COPd			6.10		
		Pdh kW			5.3		
		PERd %			244.0		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0		
		COPd			7.03		
		Pdh kW			5.7		
		PERd %			281.2		
	Tol (temperature operating limit)		COPd			2.16	
			Pdh kW			10.1	
			PERd %			86.4	
		TOL °C			-22		
		WTOL °C			35		
G Condition (-15°CDB/-)		COPd			2.62		
		Pdh kW			10.7		
		PERd %			104.8		
	Tbiv (bivalent temperature)		COPd			2.62	
			Pdh kW			10.7	
		PERd %			104.8		
	Tbiv °C			-15			
Rated heat output		Psup (at Tdesign -22°C) kW			2.4		
Warm climate water outlet 35°C	General	Annual energy consumption kWh			2,855		
		ηs (Seasonal space heating efficiency) %			231		
		Prated at 2°C kW			13		
		Qhe Annual energy consumption (GCV) GJ			10		
Space heating 	Warm climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
			COPd			3.51	
			Pdh kW			10.0	
			PERd %			140.4	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
			COPd			5.67	
			Pdh kW			8.3	
			PERd %			226.8	
	Tbiv (bivalent temperature)	COPd			4.96		
			Pdh kW			9.8	
			PERd %			198.4	
			Tbiv °C			5	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0		
			COPd			7.04	
			Pdh kW			5.7	
			PERd %			281.6	

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

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(6)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
Test at Ta DB/WB 7°C/6°C. According to EN 16147.

Technical specifications				ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.		kW	5.90 (2)		9.00 (2)				
	Max.		kW	9.75 (1)		10.44 (1)		11.60 (1)		
Power input	Heating	Min.	kW	0.84 (3)		0.90 (3)		1.00 (3)		
		Nom.	kW	1.23 (2)		1.80 (2)				
		Max.	kW	2.17 (3)		2.32 (3)		2.58 (3)		
	Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	
COP				4.79 (2)		5.00 (2)				
Pump	Type			Grundfos UPMXL GEO 25-125 130 PWM						
	Nominal ESP unit	Heating	kPa	111.2 (5)		97.4 (5)				
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	16.3 (2)		25.8 (2)				
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
LW(A) Sound power level	Indoor		dB(A)	44.0						
	Outdoor		dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Air to water unit	Rated airflow (outdoor)		m ³ /h	3,918	-	3,918	-	3,960	-
		Other	Capacity control			Inverter				
	Pck (Crankcase heater mode)		kW	0.000						
	Poff (Off mode)		kW	0.031						
	Psb (Standby mode)		kW	0.042						
	Pto (Thermostat off)		kW	0.033						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup		kW	6.0					
		Type of energy input			Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)		kWh	969	1,572	969	1,572	969	1,572
		COPdhw			2.51	2.55	2.51	2.55	2.51	2.55



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Technical specifications			ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1			
Domestic hot water heating	Average climate	Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min			
		η_{wh} (water heating efficiency)	%	106	107	106	107	106	107		
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480		
		Reference hot water temperature	°C	52.5							
		Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5		
		Water heating energy efficiency class		A							
		Cold climate	Average climate	AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
				COP _{dhw}		2.17	2.19	2.17	2.19	2.17	2.19
				Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
				η_{wh} (water heating efficiency)	%	91					
Qelec (Daily electricity consumption)	kWh			5.370	8.720	5.370	8.720	5.370	8.720		
Reference hot water temperature	°C			52.5							
Stand-by power input	W			45.0	63.7	45.0	63.7	45.0	63.7		
Warm climate	Average climate			AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413
				COP _{dhw}		2.76	2.83	2.76	2.83	2.76	2.83
				Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
		η_{wh} (water heating efficiency)	%	117	119	117	119	117	119		
		Qelec (Daily electricity consumption)	kWh	4.220	6.740	4.220	6.740	4.220	6.740		
		Reference hot water temperature	°C	52.5							
		Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4		
		Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236				
					η_s (Seasonal space heating efficiency)	%	140				
				Prated at -10°C	Prated	kW	13				
Q _{he} Annual energy consumption (GCV)	Gj				26						
Seasonal space heating eff. class	SCOP				3.57						
	Seasonal space heating eff. class				A++						
A Condition (-7°CDB/-8°CWB)	Cd _h (Degradation heating)			COP _d		2.43					
				Pd _h	kW	11.1					
				PER _d	%	97.2					
B Condition (2°CDB/1°CWB)	Cd _h (Degradation heating)			COP _d		3.52					
				Pd _h	kW	6.7					
				PER _d	%	140.8					
C Condition (7°CDB/6°CWB)	Cd _h (Degradation heating)			COP _d		4.54					
				Pd _h	kW	6.5					

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Technical specifications				ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1	
Space heating 	Average climate	C Condition (7°CDB/6°CWB)	PERd %						181.6	
	water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.97
			Pdh kW							5.2
			PERd %							238.8
			Tol (temperature operating limit)	COPd						
		Pdh kW							12.5	
		PERd %							84.8	
		TOL °C							-10	
		WTOL °C							55	
		Rated heat output	Psup (at Tdesign -10°C)	kW						0.0
		Tbiv (bivalent temperature)	COPd							2.12
			Pdh kW							12.5
			PERd %							84.8
			Tbiv °C							-10
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh						9,658
ηs (Seasonal space heating efficiency)			%						125	
Prated at -22°C			kW							13
Qhe Annual energy consumption (GCV)			Gj							35
A Condition (-7°CDB/-8°CWB)		Cdh (Degradation heating)	COPd							1.0
			Pdh kW							2.74
			PERd %							7.5
									109.6	
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	COPd							1.0
			Pdh kW							3.67
			PERd %							5.8
									146.8	
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd							1.0
			Pdh kW							4.69
			PERd %							5.6
									187.6	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd							6.12	
		Pdh kW							6.2	
		PERd %							244.8	
								1.65		
								10.6		
								66.0		

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Technical specifications				ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1		
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C						-22		
	WTOL		°C						55		
	(bivalent temperature)	G Condition (-15°CDB/-)	COPd							2.17	
			Pdh	kW						10.3	
		Tbiv	PERd	%						86.8	
			COPd							1.90	
		Pdh		kW						11.0	
			PERd	%						76.0	
		Tbiv		°C						-18	
		Rated heat output	Psup (at Tdesign -22°C)		kW					1.9	
		Warm climate water outlet 55°C	General	Annual energy consumption		kWh					4,063
				ηs (Seasonal space heating efficiency)		%					161
	Prated at 2°C				kW						13
	Qhe Annual energy consumption (GCV)				Gj						15
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	COPd							1.0
				Pdh	kW						11.4
			PERd	%							104.8
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd							1.0
				Pdh	kW						8.2
			PERd	%							146.0
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd							1.0		
		Pdh	kW						6.1		
	PERd	%							214.8		
Tbiv (bivalent temperature)	COPd								3.18		
		Pdh	kW						11.0		
	PERd	%							127.2		
Tbiv		°C							4		
Water outlet 45°C	H Condition (2°C/-)	Max.		kW	11.1			11.8			
Average climate water outlet 35°C	General	Annual energy consumption		kWh					5,479		
		ηs (Seasonal space heating efficiency)		%					186		
		Prated at -10°C		kW						13	
		Qhe Annual energy consumption (GCV)		Gj						20	
		SCOP								4.71	
		Seasonal space heating eff. class								A+++	

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Technical specifications				ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	COPd						2.97	
			Pdh	kW					10.7	
			PERd	%						118.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.94
			Pdh	kW						6.9
		C Condition (7°CDB/6°CWB)	PERd	%						197.6
			Cdh (Degradation heating)							1.0
			COPd							5.95
		D Condition (12°CDB/11°CWB)	Pdh	kW						6.2
	PERd		%						238.0	
	Cdh (Degradation heating)								1.0	
	Cold climate water outlet 35°C	General	COPd							7.07
			Pdh	kW						5.6
			PERd	%						282.8
		Tol (temperature operating limit)	COPd							2.88
			Pdh	kW						12.1
			PERd	%						115.2
		Tbiv (bivalent temperature)	TOL	°C						-10
			WTOL	°C						35
COPd									2.97	
Pdh			kW						10.7	
Rated heat output	Psup (at Tdesign -10°C)	PERd	%					118.8		
		Tbiv	°C					-7		
Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)	kW						0.4	
		Annual energy consumption	kWh						7,425	
		ηs (Seasonal space heating efficiency)	%						163	
		Prated at -22°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						27	
	A Condition (-7°CDB/-8°CWB)	COPd							3.50	
		Pdh	kW						8.0	
		PERd	%						140.0	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
		COPd							5.07	
Pdh		kW						4.9		
C Condition (7°CDB/6°CWB)	PERd	%						202.8		
	Cdh (Degradation heating)							1.0		

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Technical specifications				ETVH16S18E6V + EPRA14DW1	ETVH16S23E6V + EPRA14DW1	ETVH16S18E6V + EPRA16DW1	ETVH16S23E6V + EPRA16DW1	ETVH16S18E6V + EPRA18DW1	ETVH16S23E6V + EPRA18DW1		
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd						6.10		
			Pdh	kW					5.3		
			PERd	%						244.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
			COPd							7.03	
			Pdh	kW						5.7	
		Tol (temperature operating limit)	COPd	Pdh	kW						281.2
				PERd	%						2.16
				TOL	°C						10.1
				WTOL	°C						86.4
	Warm climate water outlet 35°C	G Condition (-15°CDB/-)	COPd							2.62	
			Pdh	kW						10.7	
			PERd	%						104.8	
		Tbiv (bivalent temperature)	COPd	Pdh	kW						2.62
				PERd	%						10.7
				Tbiv	°C						104.8
		Rated heat output	Psup (at Tdesign -22°C)	Pdh	kW						-15
				PERd	%						2.4
				Tbiv	°C						2,992
				WTOL	°C						220
	General	Annual energy consumption	ηs (Seasonal space heating efficiency)	%					13		
			Prated at 2°C	kW					11		
			Qhe Annual energy consumption (GCV)	Gj						1.0	
										3.51	
	B Condition (2°CDB/1°CWB)	COPd	Pdh	kW						10.0	
			PERd	%						140.4	
			Cdh (Degradation heating)							1.0	
	C Condition (7°CDB/6°CWB)	COPd	Pdh	kW						5.67	
			PERd	%						8.3	
			Tbiv	°C						226.8	
D Condition (12°CDB/11°CWB)	COPd	Pdh	kW						4.96		
		PERd	%						9.8		
		Tbiv	°C						198.4		
		WTOL	°C						5		
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	COPd						7.04		
			Pdh	kW						5.7	
			PERd	%						281.6	

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

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

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

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

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

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

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB

Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
Heating capacity	Min.	kW		3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.	kW		5.90 (2)			9.00 (2)		
	Max.	kW		9.75 (1)		10.44 (1)		11.60 (1)	
Power input	Heating	Min.	kW	0.84 (3)		0.90 (3)		1.00 (3)	
		Nom.	kW	1.23 (2)			1.80 (2)		
		Max.	kW	2.17 (3)		2.32 (3)		2.58 (3)	
	Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP				4.79 (2)		5.00 (2)			

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Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1		
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM									
	Nominal ESP unit	Heating	kPa	111.2 (5)			97.4 (5)				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)			25.8 (2)			
General	Supplier/Manufacturer details	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium									
	Product description	Name or trademark		Daikin Europe N.V.							
		Air-to-water heat pump		Yes							
		Brine-to-water heat pump		No							
		Heat pump combination heater		Yes							
		Low-temperature heat pump		No							
		Supplementary heater integrated		Yes							
	LW(A) Sound power level	Indoor		dB(A)	44.0						
Outdoor			dB(A)	54.0							
LW(A) Sound power level (according to EN14825)				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825							
Sound condition	Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825							
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L		
Space heating general	Other	Capacity control		Inverter							
		Pck (Crankcase heater mode)	kW	0.000							
		Poff (Off mode)	kW	0.031							
		Psb (Standby mode)	kW	0.042							
		Pto (Thermostat off)	kW	0.033							
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL		
Space heating general	Integrated supplementary heater	Psup	kW	9.0							
		Type of energy input		Electrical							
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572		
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55		
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min		
Domestic hot water heating	Average climate	ηwh (water heating efficiency)	%	106	107	106	107	106	107		
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480		
		Reference hot water temperature	°C	52.5							
Domestic hot water heating	Average climate	Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5		
		Water heating energy efficiency class		A							
		AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839		
	Cold climate	COPdhw		2.17	2.19	2.17	2.19	2.17	2.19		
		Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min		
		ηwh (water heating efficiency)	%	91							
		Qelec (Daily electricity consumption)	kWh	5.370	8.720	5.370	8.720	5.370	8.720		
		Reference hot water temperature	°C	52.5							
		Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7		
		Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413	
COPdhw			2.76	2.83	2.76	2.83	2.76	2.83			
Heat up time			1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min			
ηwh (water heating efficiency)	%		117	119	117	119	117	119			
Qelec (Daily electricity consumption)	kWh		4.220	6.740	4.220	6.740	4.220	6.740			
Reference hot water temperature	°C		52.5								
Stand-by power input	W		41.6	55.4	41.6	55.4	41.6	55.4			

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Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1						
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	7,236											
			η_s (Seasonal space heating efficiency)	%	140										
			Prated at -10°C	kW	13										
			Qhe Annual energy consumption (GCV)	Gj	26										
			SCOP		3.57										
			Seasonal space heating eff. class		A++										
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0									
					COPd		2.43								
					Pdh	kW	11.1								
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0									
					COPd		3.52								
					Pdh	kW	6.7								
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0									
					COPd		4.54								
					Pdh	kW	6.5								
			Space heating 	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0								
						COPd		5.97							
						Pdh	kW	5.2							
						PERd	%	238.8							
						Tol (temperature operating limit)	COPd		2.12						
Pdh	kW	12.5													
PERd	%	84.8													
Rated heat output (bivalent temperature)	TOL					-10									
		WTOL				°C	55								
		Psup (at Tdesign -10°C)				kW	0.0								
Tbiv (bivalent temperature)	COPd					2.12									
		Pdh				kW	12.5								
		PERd				%	84.8								
Cold climate water outlet 55°C	General	Annual energy consumption				9,658									
						η_s (Seasonal space heating efficiency)	%	125							
						Prated at -22°C	kW	13							
						Qhe Annual energy consumption (GCV)	Gj	35							
						A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0						
								COPd		2.74					
								Pdh	kW	7.5					
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0									
					COPd		3.67								
					Pdh	kW	5.8								
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0									
					COPd		4.69								
					Pdh	kW	5.6								
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0									
					COPd		6.12								
					Pdh	kW	6.2								
			Tol (temperature operating limit)	PERd		244.8									
					COPd		1.65								
					Pdh	kW	10.6								
				PERd		66.0									
TOL	°C	-22													

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Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1		
Space heating Cold climate water outlet 55°C Warm climate water outlet 55°C Water outlet 45°C Average climate water outlet 35°C	Tol (temperature operating limit)	WTOL	°C	55							
	G Condition (-15°CDB/-) (bivalent temperature)	General	COPd		2.17						
			Pdh	kW	10.3						
			PERd	%	86.8						
			Tbiv	COPd	1.90						
			Pdh	kW	11.0						
			PERd	%	76.0						
			Tbiv	°C	-18						
	Rated heat output	Psup (at Tdesign -22°C)	kW	1.9							
	B Condition (2°CDB/1°CWB)	General	Annual energy consumption	kWh	4,063						
			ηs (Seasonal space heating efficiency)	%	161						
			Prated at 2°C	kW	13						
			Qhe Annual energy consumption (GCV)	Gj	15						
			Cdh (Degradation heating)		1.0						
			COPd		2.62						
			Pdh	kW	11.4						
			PERd	%	104.8						
		C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)		1.0					
				COPd		3.65					
			Pdh	kW	8.2						
	D Condition (12°CDB/11°CWB)		PERd	%	146.0						
			Cdh (Degradation heating)		1.0						
			COPd		5.37						
	Tbiv (bivalent temperature)		Pdh	kW	6.1						
			PERd	%	214.8						
			Tbiv	°C	4						
			COPd		3.18						
H Condition (2°C/-)		Pdh	kW	11.1		11.8					
		PERd	%	11.8							
Average climate water outlet 35°C	General	Annual energy consumption	kWh	5,479							
		ηs (Seasonal space heating efficiency)	%	186							
		Prated at -10°C	kW	13							
		Qhe Annual energy consumption (GCV)	Gj	20							
		SCOP		4.71							
		Seasonal space heating eff. class		A+++							
	A Condition (-7°CDB/-8°CWB)	COPd		2.97							

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Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1
Space heating water outlet 35°C	Average climate	A Condition (-7°CDB/-8°CWB)	Pdh	kW					10.7
			PERd	%					118.8
	B Condition (2°CDB/-1°CWB)	CdH (Degradation heating)	COPd						1.0
			Pdh	kW					4.94
			PERd	%					6.9
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd						1.0
			Pdh	kW					5.95
			PERd	%					6.2
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd						1.0
			Pdh	kW					7.07
			PERd	%					5.6
	Tol (temperature operating limit)	COPd	TOL	°C					282.8
			WTOL	°C					35
			Pdh	kW					2.88
			PERd	%					12.1
	Tbiv (bivalent temperature)	COPd	Tbiv	°C					115.2
			Pdh	kW					-10
			PERd	%					35
	Rated heat output	Psup (at Tdesign -10°C)	Tbiv	°C					2.97
			Pdh	kW					10.7
Cold climate water outlet 35°C	General	Annual energy consumption	PERd	%					118.8
			Prated at -22°C	kW					-7
			Qhe Annual energy consumption (GCV)	Gj					0.4
			ηs (Seasonal space heating efficiency)	%					7,425
	A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd						163
			Pdh	kW					13
			PERd	%					27
	B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd						3.50
			Pdh	kW					8.0
			PERd	%					140.0
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd						1.0
Pdh			kW					5.07	
PERd			%					4.9	
COPd	COPd	Tbiv	°C					202.8	
		Pdh	kW					1.0	
COPd	COPd	Pdh	kW					6.10	
		PERd	%					6.10	

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Technical specifications				ETVH16S18E9W + EPRA14DW1	ETVH16S23E9W + EPRA14DW1	ETVH16S18E9W + EPRA16DW1	ETVH16S23E9W + EPRA16DW1	ETVH16S18E9W + EPRA18DW1	ETVH16S23E9W + EPRA18DW1	
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Pdh	kW					5.3	
			PERd	%					244.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.03
		Tol (temperature operating limit)	Pdh	kW						5.7
			PERd	%						281.2
		Tol (temperature operating limit)	COPd							2.16
			Pdh	kW						10.1
		Tol (temperature operating limit)	PERd	%						86.4
			TOL	°C						-22
		Tol (temperature operating limit)	WTOL	°C						35
			COPd							2.62
	G Condition (-15°CDB/-)	Pdh	kW						10.7	
		PERd	%						104.8	
	Tbiv (bivalent temperature)	COPd							2.62	
		Pdh	kW						10.7	
	Tbiv (bivalent temperature)	PERd	%						104.8	
		Tbiv	°C						-15	
	Rated heat output	Psup (at Tdesign -22°C)	kW						2.4	
	Warm climate water outlet 35°C	General	Annual energy consumption		kWh					2,992
			ηs (Seasonal space heating efficiency)	%						220
			Prated at 2°C	kW						13
			Qhe Annual energy consumption (GCV)	Gj						11
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
COPd									3.51	
Pdh			kW						10.0	
B Condition (2°CDB/1°CWB)		PERd	%						140.4	
		Cdh (Degradation heating)							1.0	
C Condition (7°CDB/6°CWB)		COPd							5.67	
		Pdh	kW						8.3	
C Condition (7°CDB/6°CWB)		PERd	%						226.8	
	COPd							4.96		
Tbiv (bivalent temperature)	Pdh	kW						9.8		
	PERd	%						198.4		
Tbiv (bivalent temperature)	Tbiv	°C						5		
	Cdh (Degradation heating)							1.0		
D Condition (12°CDB/11°CWB)	COPd							7.04		
	Pdh	kW						5.7		
D Condition (12°CDB/11°CWB)	PERd	%						281.6		

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

Technical specifications				ETVX16S18E6V + EPRA14DAW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.		kW	5.90 (2)		9.00 (2)			
	Max.		kW	9.75 (1)		10.44 (1)		11.60 (1)	
Cooling capacity	Nom.		kW	10.6 (3) / 6.90 (4)		11.5 (3) / 7.88 (4)		12.5 (3) / 8.86 (4)	
Power input	Heating	Min.	kW	0.84 (5)		0.90 (5)		1.00 (5)	
		Nom.	kW	1.23 (2)		1.80 (2)			
		Max.	kW	2.17 (5)		2.32 (5)		2.58 (5)	
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)		2.80 (3) / 2.93 (4)		3.05 (3) / 3.31 (4)	
		Nom.	kWh	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)
Heat up time from 10°C to 50°C				1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP				4.79 (2)		5.00 (2)			
EER				4.13 (3) / 2.70 (4)		4.11 (3) / 2.69 (4)		4.09 (3) / 2.68 (4)	

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Technical specifications				ETVX16S18E6V + EPRA14DW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1	
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM								
	Nominal ESP unit	Heating	kPa	111.2 (7)			97.4 (7)			
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min		16.3 (2)		25.8 (2)		
		General		Supplier/Manufacturer details	Name and address Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
Product description	General	Name or trademark		Daikin Europe N.V.						
		Air-to-water heat pump		Yes						
		Brine-to-water heat pump		No						
		Heat pump combination heater		Yes						
		Low-temperature heat pump		No						
		Supplementary heater integrated		Yes						
		Water-to-water heat pump		No						
LW(A) Sound power level	LW(A) Sound power level	Indoor	dB(A)	44.0						
		Outdoor	dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name	Stainless steel domestic hot water tank 180 l		Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L		
		Space heating general		Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)		kW	0.000					
		Poff (Off mode)		kW	0.031					
		Psb (Standby mode)		kW	0.042					
Pto (Thermostat off)		kW	0.033							
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	kW	6.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)	%	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
	COPdhw			2.17	2.19	2.17	2.19	2.17	2.19	
	Heat up time			1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min	
	ηwh (water heating efficiency)		%	91						
	Qelec (Daily electricity consumption)		kWh	5.370	8.720	5.370	8.720	5.370	8.720	
	Reference hot water temperature		°C	52.5						
	Warm climate	Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7	
		AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413	
		COPdhw		2.76	2.83	2.76	2.83	2.76	2.83	
		Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min	
		ηwh (water heating efficiency)	%	117	119	117	119	117	119	
Qelec (Daily electricity consumption)		kWh	4.220	6.740	4.220	6.740	4.220	6.740		
Reference hot water temperature		°C	52.5							
Stand-by power input		W	41.6	55.4	41.6	55.4	41.6	55.4		

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Technical specifications				ETVX16S18E6V + EPRA14DW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,122		
		η_s (Seasonal space heating efficiency)	%							142	
		Prated at -10°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							26	
		SCOP								3.63	
		Seasonal space heating eff. class								A++	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)								1.0
			COPd								2.43
			Pdh	kW							11.1
		B Condition (2°CDB/1°CWB)	PERd	%							97.2
			Cdh (Degradation heating)								1.0
			COPd								3.52
		C Condition (7°CDB/6°CWB)	Pdh	kW							6.7
			PERd	%							140.8
			Cdh (Degradation heating)								1.0
		Space heating Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd							4.54
				Pdh	kW						
PERd	%									181.6	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)										1.0
	COPd										5.97
	Pdh			kW							5.2
Tol (temperature operating limit)	PERd			%							238.8
	COPd										2.12
	Pdh			kW							12.5
Rated heat output	PERd			%							84.8
	TOL			°C							-10
	WTOL			°C							55
Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)			kW							0.0
	COPd										2.12
	Pdh			kW							12.5
Cold climate water outlet 55°C	PERd			%							84.8
	Tbiv			°C							-10
	Annual energy consumption	kWh							9,589		
Cold climate water outlet 55°C	General	η_s (Seasonal space heating efficiency)	%							126	
		Prated at -22°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)								1.0
			COPd								2.74
			Pdh	kW							7.5
		B Condition (2°CDB/1°CWB)	PERd	%							109.6
			Cdh (Degradation heating)								1.0
			COPd								3.67
		C Condition (7°CDB/6°CWB)	Pdh	kW							5.8
			PERd	%							146.8
			Cdh (Degradation heating)								1.0
		D Condition (12°CDB/11°CWB)	COPd								4.69
			Pdh	kW							5.6
			PERd	%							187.6
		Tol (temperature operating limit)	COPd								6.12
			Pdh	kW							6.2
PERd	%								244.8		
Tol (temperature operating limit)	COPd								1.65		

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Technical specifications				ETVX16S18E6V + EPRA14DW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1			
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW %								
		G Condition (-15°CDB/-)	COPd Pdh PERd	kW %								
		Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %								
		Rated heat output	Psup (at Tdesign -22°C)	kW								
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh							
				ηs (Seasonal space heating efficiency)	%							
				Prated at 2°C	kW							
				Qhe Annual energy consumption (GCV)	Gj							
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								
				COPd								
	Pdh PERd			kW %								
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)									
			COPd									
			Pdh PERd	kW %								
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)									
			COPd									
			Pdh PERd	kW %								
	Tbiv (bivalent temperature)		COPd Pdh PERd Tbiv	kW %								
	Water outlet 45°C (-2°C/-)		H Condition	Max.	kW		11.1			11.8		
	Average climate water outlet 35°C		General	Annual energy consumption	kWh							
				ηs (Seasonal space heating efficiency)	%							
		Prated at -10°C		kW								
		Qhe Annual energy consumption (GCV)		Gj								

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Technical specifications				ETVX16S18E6V + EPRA14DW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	General	SCOP						4.81	
			Seasonal space heating eff. class						A+++	
		A Condition (-7°CDB/-8°CWB)	COPd							2.97
			Pdh	kW						10.7
			PERd	%						118.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.94
			Pdh	kW						6.9
			PERd	%						197.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.95
			Pdh	kW						6.2
			PERd	%						238.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.07
			Pdh	kW						5.6
			PERd	%						282.8
		Tol (temperature operating limit)	COPd							2.88
			Pdh	kW						12.1
			PERd	%						115.2
	TOL	°C						-10		
	WTOL	°C						35		
Tbiv (bivalent temperature)	COPd							2.97		
	Pdh	kW						10.7		
	PERd	%						118.8		
	Tbiv	°C						-7		
Rated heat output	Psup (at Tdesign -10°C)	kW						0.4		
Cold climate water outlet 35°C	General	Annual energy consumption	kWh						7,356	
		ηs (Seasonal space heating efficiency)	%						165	
		Prated at -22°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						26	
		A Condition (-7°CDB/-8°CWB)	COPd							3.50
			Pdh	kW						8.0
			PERd	%						140.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.07
			Pdh	kW						4.9

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Technical specifications					ETVX16S18E6V + EPRA14DW1	ETVX16S23E6V + EPRA14DW1	ETVX16S18E6V + EPRA16DW1	ETVX16S23E6V + EPRA16DW1	ETVX16S18E6V + EPRA18DW1	ETVX16S23E6V + EPRA18DW1		
Space heating Cold climate water outlet 35°C	B Condition (2°CDB/1°CWB)	PERd	%		202.8							
					C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)	1.0					
	D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)	1.0									
			COPd	7.03								
				Pdh kW			5.7					
	PERd	281.2										
		Tol (temperature operating limit)	COPd	2.16								
	Pdh kW			10.1								
		PERd	86.4									
	TOL		-22									
		WTOL	35									
	G Condition (-15°CDB/-)		COPd	2.62								
		Pdh kW		10.7								
	PERd		104.8									
		Tbiv (bivalent temperature)	COPd	2.62								
	Pdh kW			10.7								
		PERd	104.8									
	Tbiv		-15									
		Rated heat output	Psup (at Tdesign -22°C)	2.4								
	General			Annual energy consumption	2,855							
		ηs (Seasonal space heating efficiency)	231									
			Prated at 2°C		13							
					Qhe Annual energy consumption (GCV)	10						
B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)	1.0										
		COPd	3.51									
			Pdh kW	10.0								
				PERd	140.4							
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)	1.0										
		COPd	5.67									
			Pdh kW	8.3								
				PERd	226.8							
Tbiv (bivalent temperature)	COPd	4.96										
		Pdh kW	9.8									
PERd	198.4											
	Space heating Warm climate water outlet 35°C	Tbiv (bivalent temperature)	Tbiv	°C	5							
D Condition (12°CDB- B/11°CWB)					Cdh (Degradation heating)	1.0						
						COPd	7.04					
							Pdh kW	5.7				
	PERd	281.6										

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

Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
Heating capacity	Min.	kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.	kW	5.90 (2)		9.00 (2)				
	Max.	kW	9.75 (1)		10.44 (1)		11.60 (1)		
Cooling capacity	Nom.	kW	10.6 (3) / 6.90 (4)		11.5 (3) / 7.88 (4)		12.5 (3) / 8.86 (4)		

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1	
Power input	Heating	Min.	kW	0.84 (5)		0.90 (5)		1.00 (5)		
		Nom.	kW	1.23 (2)		1.80 (2)				
		Max.	kW	2.17 (5)		2.32 (5)		2.58 (5)		
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)		2.80 (3) / 2.93 (4)		3.05 (3) / 3.31 (4)		
		Domestic hot water from 10°C	Nom.	kWh	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	
COP				4.79 (2)		5.00 (2)				
EER				4.13 (3) / 2.70 (4)		4.11 (3) / 2.69 (4)		4.09 (3) / 2.68 (4)		
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM								
	Nominal ESP unit	Heating	kPa	111.2 (7)		97.4 (7)				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)			
					Supplier/Manufacturer details					Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium
General	Name or trademark			Daikin Europe N.V.						
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
	LW(A) Sound power level	Indoor	Water-to-water heat pump			No				
LW(A) Sound power level			dB(A) 44.0							
LW(A) Sound power level (according to EN14825)			Outdoor			dB(A) 54.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control			Inverter					
		Pck (Crankcase heater mode)			kW 0.000					
		Poff (Off mode)			kW 0.031					
		Psb (Standby mode)			kW 0.042					
		Pto (Thermostat off)			kW 0.033					
Domestic hot water heating	General	Declared load profile			L	XL	L	XL	L	XL
Space heating general	Integrated supplementary heater	Psup			kW 9.0					
		Type of energy input			Electrical					

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1	
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)	%	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
ηwh (water heating efficiency)	%		91							
Qelec (Daily electricity consumption)	kWh		5.370	8.720	5.370	8.720	5.370	8.720		
Reference hot water temperature	°C		52.5							
Stand-by power input	W		45.0	63.7	45.0	63.7	45.0	63.7		
Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413		
	COPdhw		2.76	2.83	2.76	2.83	2.76	2.83		
	Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	ηwh (water heating efficiency)	%	117	119	117	119	117	119		
	Qelec (Daily electricity consumption)	kWh	4.220	6.740	4.220	6.740	4.220	6.740		
	Reference hot water temperature	°C	52.5							
	Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4		
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,122					
			ηs (Seasonal space heating efficiency)	%	142					
		A Condition (-7°CDB/-8°CWB)	Prated at -10°C	kW	13					
			Qhe Annual energy consumption (GCV)	Gj	26					
			SCOP		3.63					
		A Condition (-7°CDB/-8°CWB)	Seasonal space heating eff. class		A++					
			Cdh (Degradation heating)		1.0					
			COPd		2.43					
			Pdh	kW	11.1					
		B Condition (2°CDB/1°CWB)	PERd	%	97.2					
			Cdh (Degradation heating)		1.0					
			COPd		3.52					
		C Condition (7°CDB/6°CWB)	Pdh	kW	6.7					
			PERd	%	140.8					
			Cdh (Degradation heating)		1.0					

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1		
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd						4.54		
			Pdh	kW					6.5		
			PERd	%						181.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
			COPd							5.97	
			Pdh	kW						5.2	
		Tol (temperature operating limit)	Tol (temperature operating limit)	PERd	%						238.8
				COPd							2.12
				Pdh	kW						12.5
				PERd	%						84.8
	Cold climate water outlet 55°C	General	Rated heat output	TOL	°C					-10	
				WTOL	°C					55	
			Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)	kW						0.0
				COPd							2.12
			Tbiv (bivalent temperature)	Pdh	kW						12.5
				PERd	%						84.8
			Annual energy consumption	Tbiv	°C						-10
				Annual energy consumption (GCV)	Gj						9,589
			ηs (Seasonal space heating efficiency)	Prated at -22°C	kW						13
				Qhe Annual energy consumption (GCV)	Gj						35
Cold climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0		
		COPd							2.74		
		Pdh	kW						7.5		
	B Condition (2°CDB/1°CWB)	PERd	%						109.6		
		Cdh (Degradation heating)							1.0		
		COPd							3.67		
	C Condition (7°CDB/6°CWB)	Pdh	kW						5.8		
		PERd	%						146.8		
		Cdh (Degradation heating)							1.0		
	D Condition (12°CDB/11°CWB)	COPd							4.69		
Pdh		kW						5.6			
PERd		%						187.6			
Tol (temperature operating limit)	Tol (temperature operating limit)	COPd							6.12		
		Pdh	kW						6.2		
Tol (temperature operating limit)	Tol (temperature operating limit)	PERd	%						244.8		
		COPd							1.65		

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1	
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW %			10.6 66.0			
		G Condition (-15°CDB/-)	COPd Pdh PERd	kW %			2.17 10.3 86.8			
		Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %			1.90 11.0 76.0 -18			
		Rated heat output	Psup (at Tdesign -22°C)	kW			1.9			
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh			3,926		
				ηs (Seasonal space heating efficiency)	%			167		
				Prated at 2°C	kW			13		
				Qhe Annual energy consumption (GCV)	Gj			14		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0			
				COPd			2.62			
				Pdh PERd	kW %		11.4 104.8			
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0			
	COPd					3.65				
	Pdh PERd			kW %		8.2 146.0				
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)			1.0				
			COPd			5.37				
			Pdh PERd	kW %		6.1 214.8				
	Tbiv (bivalent temperature)		COPd Pdh PERd Tbiv	kW %		3.18 11.0 127.2 4				
	Water outlet 45°C (-2°C/-)		H Condition	Max.	kW	11.1			11.8	
	Average climate water outlet 35°C	General	Annual energy consumption	kWh			5,366			
			ηs (Seasonal space heating efficiency)	%			190			
			Prated at -10°C	kW			13			
			Qhe Annual energy consumption (GCV)	Gj			19			

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	General	SCOP						4.81	
			Seasonal space heating eff. class						A+++	
		A Con- dition (-7°C D-/8°C CWB)	COPd							2.97
			Pdh	kW						10.7
			PERd	%						118.8
		B Con- dition (2°C D-/1°C CWB)	Cdh (Degradation heating)							1.0
			COPd							4.94
			Pdh	kW						6.9
		C Con- dition (7°C D-/6°C CWB)	PERd	%						197.6
			Cdh (Degradation heating)							1.0
			COPd							5.95
		D Con- dition (12°C D-/11°C CWB)	Pdh	kW						6.2
			PERd	%						238.0
			Cdh (Degradation heating)							1.0
		Tol (tem- perature operating limit)	COPd							7.07
			Pdh	kW						5.6
			PERd	%						282.8
			TOL	°C						-10
		Tbiv (bivalent tempera- ture)	WTOL	°C						35
			COPd							2.97
Pdh	kW							10.7		
PERd	%							118.8		
Rated heat output	Tbiv	°C						-7		
	Psup (at Tdesign -10°C)	kW						0.4		
Cold climate water out- let 35°C	General	Annual energy consumption	kWh						7,356	
		ηs (Seasonal space heating efficiency)	%						165	
		Prated at -22°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						26	
	A Con- dition (-7°C D-/8°C CWB)	COPd							3.50	
		Pdh	kW						8.0	
		PERd	%						140.0	
	B Con- dition (2°C D-/1°C CWB)	Cdh (Degradation heating)							1.0	
		COPd							5.07	
		Pdh	kW						4.9	

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Technical specifications				ETVX16S18E9W + EPRA14DW1	ETVX16S23E9W + EPRA14DW1	ETVX16S18E9W + EPRA16DW1	ETVX16S23E9W + EPRA16DW1	ETVX16S18E9W + EPRA18DW1	ETVX16S23E9W + EPRA18DW1																																				
Space heating Cold climate water outlet 35°C	B Condition (2°CDB/1°CWB)	PERd	%	202.8																																									
				C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0																																							
						D Condition (12°CDB/11°CWB)	COPd	6.10																																					
								Tol (temperature operating limit)	Pdh	5.3																																			
										G Condition (-15°CDB/-)	PERd	244.0																																	
												Tbiv (bivalent temperature)	COPd	1.0																															
														Rated heat output	Pdh	7.03																													
																General	PERd	5.7																											
																		Annual energy consumption	%	281.2																									
																				ns (Seasonal space heating efficiency)	kWh	2,855																							
																						Prated at 2°C	kW	13																					
																								Qhe Annual energy consumption (GCV)	Gj	10																			
																										B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0																	
																												COPd	3.51																
																													Pdh	10.0															
																														PERd	140.4														
																															C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0												
																																	COPd	5.67											
																																		Pdh	8.3										
																																			PERd	226.8									
																																				Tbiv (bivalent temperature)	COPd	4.96							
																																						Pdh	9.8						
																																							PERd	198.4					
																																								Tbiv (bivalent temperature)	°C	5			
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0																																											
		COPd	7.04																																										
			Pdh	5.7																																									
				PERd	281.6																																								

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

Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
Heating capacity	Min.	kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.	kW	5.90 (2)		9.00 (2)				
	Max.	kW	9.75 (1)		10.44 (1)		11.60 (1)		
Power input	Heating	Min.	kW	0.84 (3)		0.90 (3)		1.00 (3)	
		Nom.	kW	1.23 (2)		1.80 (2)			
		Max.	kW	2.17 (3)		2.32 (3)		2.58 (3)	
Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	

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Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1	
Heat up time from 10°C to 50°C	hr			1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	
COP				4.79 (2)				5.00 (2)		
Pump	Type			Grundfos UPML GEO 25-105 130 PWM						
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (5)				84.1 (5)		
Pump Main Zone	Nominal ESP unit	Heating	kPa	90.2 (5)				80.0 (5)		
Water side Heat exchanger	Water flow rate	Heating	Nom. l/min	16.3 (2)				25.8 (2)		
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
	Water-to-water heat pump			No						
	LW(A) Sound power level	Indoor	dB(A)	44.0						
	LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control		Inverter						
		Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.031						
		Psb (Standby mode)	kW	0.042						
		Pto (Thermostat off)	kW	0.033						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup		6.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)		969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
Domestic hot water heating	Average climate	Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)		106	107	106	107	106	107	
		Qelec (Daily electricity consumption)		4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature		52.5						
		Stand-by power input		42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)		1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			ηwh (water heating efficiency)		91					
Qelec (Daily electricity consumption)			5.370	8.720	5.370	8.720	5.370	8.720		
Reference hot water temperature			52.5							
Warm climate	Stand-by power input		45.0	63.7	45.0	63.7	45.0	63.7		
	AEC (Annual electricity consumption)		876	1,413	876	1,413	876	1,413		
	COPdhw		2.76	2.83	2.76	2.83	2.76	2.83		
	Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	ηwh (water heating efficiency)		117	119	117	119	117	119		
	Qelec (Daily electricity consumption)		4.220	6.740	4.220	6.740	4.220	6.740		
	Reference hot water temperature		52.5							
	Stand-by power input		41.6	55.4	41.6	55.4	41.6	55.4		

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Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1								
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,236							
			η_s (Seasonal space heating efficiency)	%						140							
			Prated at -10°C	kW						13							
			Qhe Annual energy consumption (GCV)	Gj						26							
			SCOP							3.57							
			Seasonal space heating eff. class							A++							
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0						
					COPd							2.43					
					Pdh	kW						11.1					
					PERd	%						97.2					
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0						
					COPd							3.52					
					Pdh	kW						6.7					
					PERd	%						140.8					
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0						
					COPd							4.54					
					Pdh	kW						6.5					
					PERd	%						181.6					
			Space heating	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0			
								COPd							5.97		
Pdh	kW							5.2									
PERd	%							238.8									
Tol (temperature operating limit)	COPd							2.12									
		Pdh						kW						12.5			
		PERd						%						84.8			
		TOL						°C						-10			
Rated heat output	WTOL							55									
		Psup (at Tdesign -10°C)						kW						0.0			
		Tbiv (bivalent temperature)						°C						-10			
		Tbiv (bivalent temperature)						°C						-10			
Cold climate water outlet 55°C	General	Annual energy consumption						kWh						9,658			
								η_s (Seasonal space heating efficiency)	%						125		
								Prated at -22°C	kW						13		
								Qhe Annual energy consumption (GCV)	Gj						35		
								A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0	
										COPd							2.74
										Pdh	kW						7.5
										PERd	%						109.6
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0						
					COPd							3.67					
					Pdh	kW						5.8					
					PERd	%						146.8					
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0						
					COPd							4.69					
					Pdh	kW						5.6					
					PERd	%						187.6					
			D Condition (12°CDB/11°CWB)	COPd							6.12						
					Pdh	kW						6.2					
					PERd	%						244.8					
					Tol (temperature operating limit)	°C						1.65					
Tol (temperature operating limit)	Pdh	kW						10.6									
		PERd	%						66.0								
									66.0								

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Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1		
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C						-22		
	WTOL		°C						55		
	G Condition (-15°CDB/-)	COPd								2.17	
		Pdh		kW						10.3	
		PERd		%						86.8	
		Tbiv								1.90	
		COPd								11.0	
		Pdh		kW						76.0	
		PERd		%						-18	
		Tbiv		°C						1.9	
		Rated heat output	Psup (at Tdesign -22°C)		kW						1.9
		Warm climate water outlet 55°C	General	Annual energy consumption		kWh					4,063
	ηs (Seasonal space heating efficiency)				%						161
	Prated at 2°C				kW						13
	Qhe Annual energy consumption (GCV)				Gj						15
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)								1.0
			COPd								2.62
			Pdh		kW						11.4
	PERd			%						104.8	
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)								1.0
			COPd								3.65
			Pdh		kW						8.2
	PERd			%						146.0	
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)								1.0
			COPd								5.37
			Pdh		kW						6.1
	PERd			%						214.8	
Tbiv (bivalent temperature)	COPd									3.18	
	Pdh		kW						11.0		
	PERd		%						127.2		
Tbiv		°C						4			
Water outlet 45°C	H Condition (2°C/-)	Max.		kW	11.1			11.8			
Average climate water outlet 35°C	General	Annual energy consumption		kWh					5,479		
		ηs (Seasonal space heating efficiency)		%						186	
		Prated at -10°C		kW						13	
		Qhe Annual energy consumption (GCV)		Gj						20	
		SCOP								4.71	
		Seasonal space heating eff. class								A+++	

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Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1	
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	COPd							2.97	
		Pdh	kW						10.7	
		PERd	%						118.8	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0
		COPd								4.94
		Pdh	kW							6.9
	C Condition (7°CDB/6°CWB)	PERd	%							197.6
		Cdh (Degradation heating)								1.0
		COPd								5.95
	D Condition (12°CDB/11°CWB)	Pdh	kW							6.2
		PERd	%							238.0
		Cdh (Degradation heating)								1.0
	Tol (temperature operating limit)	COPd								2.88
		Pdh	kW							12.1
		PERd	%							115.2
	Tbiv (bivalent temperature)	TOL	°C							-10
		WTOL	°C							35
		COPd								2.97
	Rated heat output	Pdh	kW							10.7
		PERd	%							118.8
Tbiv		°C							-7	
Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)	kW						0.4	
		Annual energy consumption	kWh						7,425	
		ηs (Seasonal space heating efficiency)	%							163
		Prated at -22°C	kW							13
		Qhe Annual energy consumption (GCV)	Gj							27
	A Condition (-7°CDB/-8°CWB)	COPd								3.50
		Pdh	kW							8.0
		PERd	%							140.0
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0
		COPd								5.07
		Pdh	kW							4.9
	C Condition (7°CDB/6°CWB)	PERd	%							202.8
		Cdh (Degradation heating)								1.0

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Technical specifications				ETVZ16S18E6V + EPRA14DW1	ETVZ16S23E6V + EPRA14DW1	ETVZ16S18E6V + EPRA16DW1	ETVZ16S23E6V + EPRA16DW1	ETVZ16S18E6V + EPRA18DW1	ETVZ16S23E6V + EPRA18DW1	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd						6.10	
			Pdh	kW					5.3	
			PERd	%						244.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.03
			Pdh	kW						5.7
		Tol (temperature operating limit)	PERd	%						281.2
			COPd							2.16
			Pdh	kW						10.1
			PERd	%						86.4
	G Condition (-15°CDB/-)	TOL	°C						-22	
		WTOL	°C						35	
	Warm climate water outlet 35°C	General	COPd							2.62
			Pdh	kW						10.7
			PERd	%						104.8
		Tbiv (bivalent temperature)	COPd							2.62
			Pdh	kW						10.7
		PERd	%						104.8	
		Tbiv	°C						-15	
		Rated heat output	Psup (at Tdesign -22°C)	kW						2.4
Warm climate water outlet 35°C		General	Annual energy consumption	kWh						2,992
			ηs (Seasonal space heating efficiency)	%						220
	Prated at 2°C		kW						13	
	Qhe Annual energy consumption (GCV)		Gj						11	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
		COPd							3.51	
		Pdh	kW						10.0	
	C Condition (7°CDB/6°CWB)	PERd	%						140.4	
		Cdh (Degradation heating)							1.0	
		COPd							5.67	
Tbiv (bivalent temperature)	Pdh	kW						8.3		
	PERd	%						226.8		
	COPd							4.96		
	Pdh	kW						9.8		
D Condition (12°CDB/11°CWB)	PERd	%						198.4		
	Tbiv	°C						5		
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0	
			COPd						7.04	
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW					5.7	
			PERd	%						281.6

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

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

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

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

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

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

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB

Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.		kW	5.90 (2)			9.00 (2)		
	Max.		kW	9.75 (1)		10.44 (1)		11.60 (1)	
Power input	Heating	Min.	kW	0.84 (3)		0.90 (3)		1.00 (3)	
		Nom.	kW	1.23 (2)			1.80 (2)		
		Max.	kW	2.17 (3)		2.32 (3)		2.58 (3)	
	Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP				4.79 (2)		5.00 (2)			
Pump				Type		Grundfos UPML GEO 25-105 130 PWM			

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Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1	
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (5)			84.1 (5)			
Pump Main Zone	Nominal ESP unit	Heating	kPa	90.2 (5)			80.0 (5)			
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	16.3 (2)			25.8 (2)			
General	Supplier/Manufacturer details	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium								
		Daikin Europe N.V.								
	Product description	Name and address								
		Name or trademark								
		Air-to-water heat pump		Yes						
		Brine-to-water heat pump		No						
		Heat pump combination heater		Yes						
LW(A) Sound power level	Indoor	Low-temperature heat pump	No							
		Supplementary heater integrated	Yes							
		Water-to-water heat pump	No							
LW(A) Sound power level (according to EN14825)	Outdoor		44.0							
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control		Inverter						
		Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.031						
		Psb (Standby mode)	kW	0.042						
		Pto (Thermostat off)	kW	0.033						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	kW	9.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
Domestic hot water heating	Average climate	Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)	%	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class		A						
	Cold climate	AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839	
		COPdhw		2.17	2.19	2.17	2.19	2.17	2.19	
		Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min	
		ηwh (water heating efficiency)	%	91						
		Qelec (Daily electricity consumption)	kWh	5.370	8.720	5.370	8.720	5.370	8.720	
		Reference hot water temperature	°C	52.5						
	Warm climate	Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7	
AEC (Annual electricity consumption)		kWh	876	1,413	876	1,413	876	1,413		
COPdhw			2.76	2.83	2.76	2.83	2.76	2.83		
Heat up time			1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
ηwh (water heating efficiency)		%	117	119	117	119	117	119		
Qelec (Daily electricity consumption)		kWh	4.220	6.740	4.220	6.740	4.220	6.740		
Reference hot water temperature		°C	52.5							
	Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4		

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Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,236		
		η_s (Seasonal space heating efficiency)	%							140	
		Prated at -10°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							26	
		SCOP								3.57	
		Seasonal space heating eff. class								A++	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)								1.0
			COPd								2.43
			Pdh	kW							11.1
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0
			COPd								3.52
			Pdh	kW							6.7
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)								1.0
			COPd								4.54
			Pdh	kW							6.5
		Space heating Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	PERd	%						181.6
				D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						
COPd											5.97
Pdh	kW										5.2
Tol (temperature operating limit)	PERd			%							238.8
	COPd										2.12
	Pdh			kW							12.5
Rated heat output	PERd			%							84.8
	TOL			°C							-10
	WTOL			°C							55
Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)			kW							0.0
	COPd										2.12
	Pdh			kW							12.5
Cold climate water outlet 55°C	PERd			%							84.8
	Tbiv			°C							-10
	WTOL			°C							55
Space heating Average climate water outlet 55°C	General			Annual energy consumption	kWh						9,658
		η_s (Seasonal space heating efficiency)	%							125	
		Prated at -22°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)								1.0
			COPd								2.74
			Pdh	kW							7.5
		B Condition (2°CDB/1°CWB)	PERd	%							109.6
			Cdh (Degradation heating)								1.0
			COPd								3.67
		C Condition (7°CDB/6°CWB)	Pdh	kW							5.8
			PERd	%							146.8
			Cdh (Degradation heating)								1.0
		D Condition (12°CDB/11°CWB)	COPd								4.69
			Pdh	kW							5.6
			PERd	%							187.6
		Tol (temperature operating limit)	COPd								6.12
Pdh	kW								6.2		
PERd	%								244.8		
Cold climate water outlet 55°C	COPd								1.65		
	Pdh	kW							10.6		
	PERd	%							66.0		

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Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1			
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C						-22			
	WTOL		°C						55			
	(bivalent temperature)	G Condition (-15°CDB/-)	COPd							2.17		
			Pdh	kW						10.3		
		PERd	%							86.8		
		Tbiv	COPd								1.90	
			Pdh	kW							11.0	
		PERd	%							76.0		
		Tbiv	°C							-18		
		Rated heat output	Psup (at Tdesign -22°C)	kW							1.9	
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh							4,063
				ηs (Seasonal space heating efficiency)	%							161
	Prated at 2°C			kW							13	
	Qhe Annual energy consumption (GCV)			Gj							15	
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	COPd								1.0
				Pdh	kW							11.4
			PERd	%								104.8
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd								1.0
				Pdh	kW							8.2
			PERd	%								146.0
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd								1.0		
		Pdh	kW							6.1		
	PERd	%								214.8		
Tbiv (bivalent temperature)	Tbiv	COPd								3.18		
		Pdh	kW							11.0		
	PERd	%								127.2		
Water outlet 45°C	H Condition (2°C/-)	Max.	kW		11.1			11.8				
Average climate water outlet 35°C	General	Annual energy consumption	kWh							5,479		
		ηs (Seasonal space heating efficiency)	%							186		
		Prated at -10°C	kW								13	
		Qhe Annual energy consumption (GCV)	Gj								20	
		SCOP									4.71	
		Seasonal space heating eff. class									A+++	

2 Specifications

1 - 1 EPRA014-018DW

Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1	
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB) B Condition (2°CDB/1°CWB) C Condition (7°CDB/6°CWB) D Condition (12°CDB/11°CWB) Tol (temperature operating limit) Tbviv (bivalent temperature) Rated heat output	COPd					2.97			
			Pdh	kW				10.7		
			PERd	%				118.8		
		Cdh (Degradation heating)						1.0		
			COPd					4.94		
			Pdh	kW				6.9		
		PERd						197.6		
			Cdh (Degradation heating)					1.0		
				COPd					5.95	
		Pdh		kW				6.2		
		PERd						238.0		
			Cdh (Degradation heating)					1.0		
				COPd					7.07	
		Pdh		kW				5.6		
		PERd						282.8		
			COPd					2.88		
				Pdh	kW				12.1	
		PERd							115.2	
			TOL	°C				-10		
			WTOL	°C				35		
		COPd						2.97		
			Pdh	kW				10.7		
			PERd	%				118.8		
		Tbviv (°C)						-7		
Psup (at Tdesign -10°C)	kW					0.4				
Cold climate water outlet 35°C	General	Annual energy consumption	kWh				7,425			
			ηs (Seasonal space heating efficiency)	%				163		
			Prated at -22°C	kW				13		
			Qhe Annual energy consumption (GCV)	Gj				27		
			COPd					3.50		
	Cdh (Degradation heating)						1.0			
		COPd					5.07			
		Pdh	kW				4.9			
	PERd						202.8			
		Cdh (Degradation heating)					1.0			

2 Specifications

1 - 1 EPRA014-018DW

2

Technical specifications				ETVZ16S18E9W + EPRA14DW1	ETVZ16S23E9W + EPRA14DW1	ETVZ16S18E9W + EPRA16DW1	ETVZ16S23E9W + EPRA16DW1	ETVZ16S18E9W + EPRA18DW1	ETVZ16S23E9W + EPRA18DW1		
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd						6.10		
			Pdh	kW					5.3		
			PERd	%						244.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
			COPd							7.03	
			Pdh	kW						5.7	
		Tol (temperature operating limit)	COPd	Pdh	kW					21.6	
				PERd	%					10.1	
				TOL	°C					86.4	
				WTOL	°C					-22	
	Warm climate water outlet 35°C	G Condition (-15°CDB/-)	COPd	Pdh	kW				2.62		
				PERd	%					10.7	
			Tbiv (bivalent temperature)	COPd	Pdh	kW				104.8	
					PERd	%					2.62
		Rated heat output	Psup (at Tdesign -22°C)	Pdh	kW					10.7	
				Tbiv	°C					104.8	
		General	Annual energy consumption	Pdh	kW					-15	
				PERd	%					2.4	
				ηs (Seasonal space heating efficiency)	%						2,992
				Prated at 2°C	kW						220
Qhe Annual energy consumption (GCV)	Gj								13		
									11		
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0			
		Pdh	kW					3.51			
		PERd	%					10.0			
									140.4		
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0			
		Pdh	kW					5.67			
		PERd	%					8.3			
									226.8		
Tbiv (bivalent temperature)	COPd	Pdh	kW					4.96			
		PERd	%					9.8			
		Tbiv	°C						198.4		
									5		
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0			
		Pdh	kW					7.04			
		PERd	%					5.7			
									281.6		

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

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

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

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

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

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

Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB

Technical Specifications				EPRA14DW1	EPRA16DW1	EPRA18DW1
Casing	Colour	Silver / Black				
	Material	Polyester painted galvanised steel plate				
Dimensions	Unit	Height	mm	1,003		
		Width	mm	1,270		
		Depth	mm	533		
	Packed unit	Height	mm	1,340		
		Width	mm	1,440		
		Depth	mm	690		
Weight	Unit	kg	151			
	Packed unit	kg	186			
Packing	Material	Carton / Wood (pallet) / PE (Straps) / Plastic foil				
	Weight	kg	27			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				EPRA14DW1	EPRA16DW1	EPRA18DW1	
Heat exchanger	Length	mm		1,200			
	Rows	Quantity		3			
	Fin pitch	mm		2.20			
	Passes	Quantity		10			
	Face area	m ²		119			
	Stages	Quantity		44			
	Tube type			ø7 Hi-XSL			
	Fin	Type			WF fin		
	Treatment			Anti-corrosion treatment (PE)			
Fan	Type			Propeller fan			
	Quantity			1			
	Air flow rate	Heating	Nom.	m ³ /min	65.3	66.0	
		Cooling	Nom.	m ³ /min	106		
	Discharge direction			Horizontal			
Fan motor	Quantity			1			
	Model			Brushless DC motor			
	Output	W		210			
	Drive			Direct drive			
	Speed	Steps			12		
		Heating	Nom.	rpm	470	475	
		Cooling	Nom.	rpm	750		
Compressor	Quantity			1			
	Model			JT9KFDMYR@SP			
	Type			Hermetically sealed scroll compressor			
Compressor	Starting method			Inverter driven			
PED	Category			Category III			
Operation range	Heating	Min.	°CDB	-28.0			
		Max.	°CDB	35			
	Cooling	Min.	°CDB	10			
		Max.	°CDB	43			
	Domestic hot water	Max.	°CDB	35			
		Min.	°CDB	-28			
PED	Most critical part	Name		Compressor			
		Ps*V	Bar*I	213			
Piping connections	Water inlet heat exchanger diameter	inch		G1" (male)			
	Water outlet heat exchanger diameter	inch		G1" (male)			
Sound power level	Heating	Nom.	dB(A)	56.0 (1)	59.0 (1)		
	Cooling	Nom.	dB(A)	56.0 (1)	59.0 (1)		
Sound pressure level	Heating	Nom.	dB(A)	43.0 (2)	48.0 (2)		
	Cooling	Nom.	dB(A)	43.0 (2)	48.0 (2)		
	Night quiet mode	Heating	dB(A)	54.0 (2)			
Refrigerant	Type			R-32			
	GWP			675.0			
	Charge	TCO2Eq		2.84			
	Charge	kg		4.20			
	Control			Expansion valve			
	Circuits	Quantity			1		
Refrigerant oil	Type			FW68DE			
	Charged volume	l		1.85			
Piping connections	Piping length	OU - IU	Max.	m	50		
	High pressure side	Design pressure	bar		56		
	Level difference	IU - OU	Max.	m	10.0		
	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			Low pressure switch		
	03			Fuse			
	04			Compressor motor protection			
	05			Pressure relief valve			

2 Specifications

1 - 1 EPRA014-018DW

2

Electrical Specifications				EPRA14DW1	EPRA16DW1	EPRA18DW1	
Power supply	Name			W1			
	Phase			3~			
	Frequency	Hz	50				
	Voltage	V	400				
	Voltage range	Min.	%	-10			
		cos phi	Nom.	0.82		0.87	
		Max.	%	0.98			
Current	Minimum Ssc value	kVa	Equipment complying with EN / IEC 61000-3-2				
	Recommended fuses	A	16				
	Inverter modula-	Min.	%	40 (3)	39 (3)	37 (3)	
		For power supply	Remark	See installation manual indoor unit			
Wiring connections	For power supply	Remark	See installation manual indoor unit				
	For connec-	Remark	See installation manual indoor unit				

(1)Cooling Ta 35°C - LWE 18°C (DT = 5°C); Heating Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |

(2)The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value depending on the distance and acoustic environment. Refer to sound spectrum drawing for more information. Condition: Ta DB/WB 7°C/6°C - LWC 3 |

(3)Percentage of heating capacity at Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

3 Electrical data

3 - 1 Electrical Data

EPRA014-018DV
EPRA014-018DW

* Electrical meter specification

Pulse meter type/voltage-free contact for 5 V DC detection by PCB.

- Possible number of pulses

- 0.1· pulse/kWh
- 1· pulse/kWh
- 10· pulse/kWh
- 100· pulse/kWh
- 1000· pulse/kWh

- Pulse duration

minimum On time: ·40ms·
Minimum OFF time: ·100ms·

- Measurement type (depending on installation)

- Single-phase AC meter
- Three-phase AC meter
 - Balanced loads
 - Unbalanced loads

* Electrical meter installation guideline

- It is the responsibility of the installer to cover the complete power consumption with electrical meters (combination of estimation and metering is not allowed).

- Required number of electrical meters

Outdoor unit type		EPRA(14/16/18)(D/E)A*					
Indoor unit type		ETB(H/X)16(D/E)A*			ETV(H/X/Z)16S*(D/E)A*		
	Backup heater type	6V		9W	6V		9W
	Backup heater power supply	1~ 230V	3~ 230V	3~ 400V	1~ 230V	3~ 230V	3~ 400V
	Backup heater configuration	2 / 4 / 6 kW	6 kW	3 / 6 / 9 kW	2 / 4 / 6 kW	6 kW	3 / 6 / 9 kW
Normal kWh rate power supply							
Electrical meter type	1~	1	-	-	1	-	-
	3~ balanced	-	-	-	-	-	-
	3~ unbalanced	-	1	1	-	1	1
Preferential kWh rate power supply							
Electrical meter type	1~	2	1	1	2	1	1
	3~ balanced	-	-	-	-	-	-
	3~ unbalanced	-	1	1	-	1	1

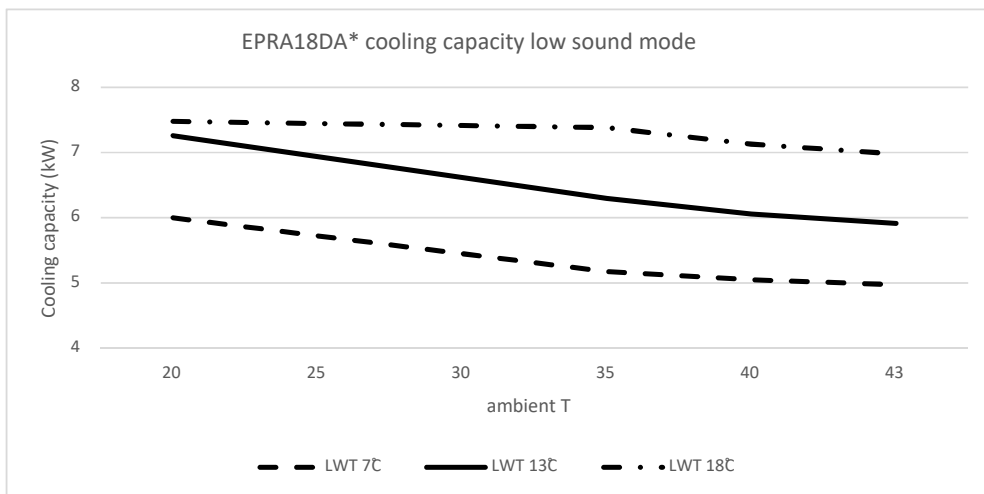
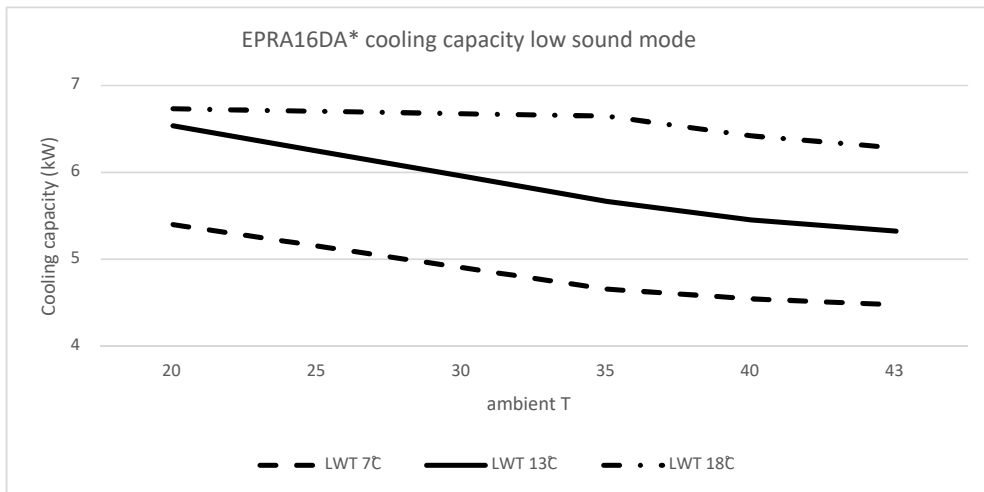
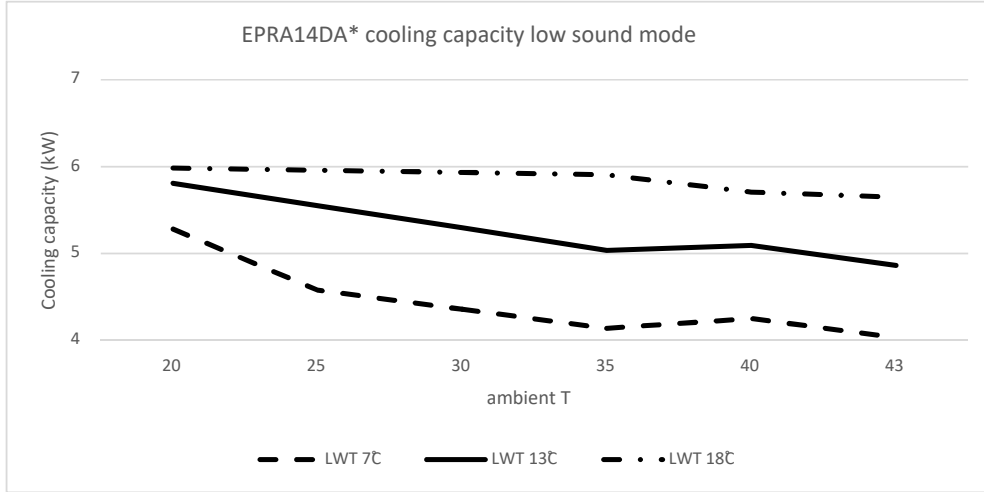
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4 Capacity graphs

4 - 1 Cooling Capacity Graphs

4

EPRA014-018DV
EPRA014-018DW

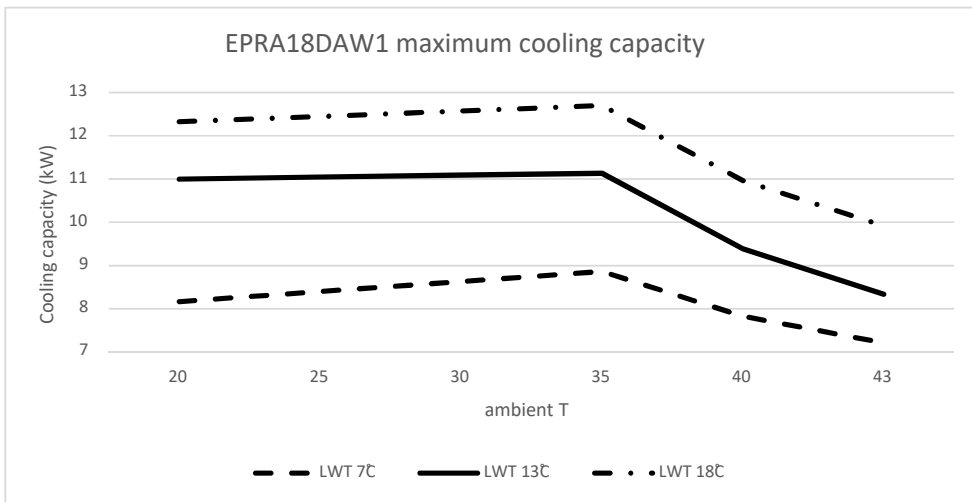
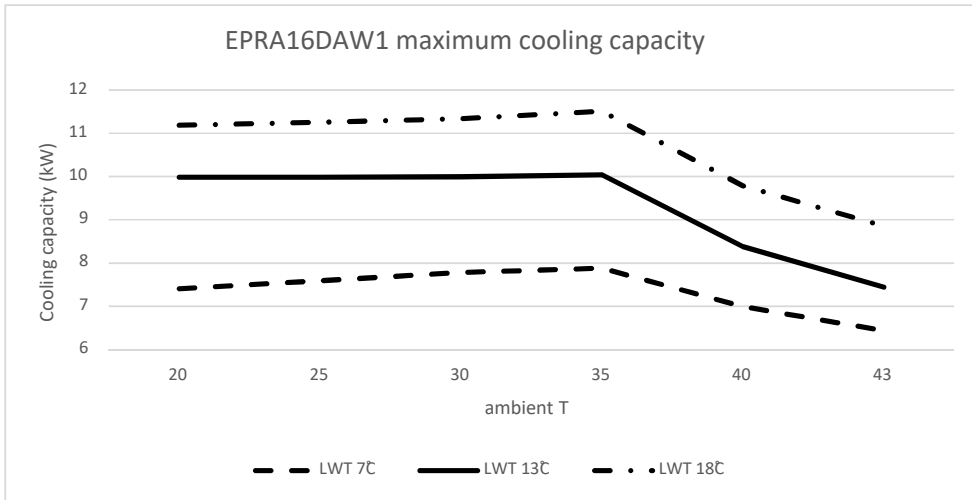
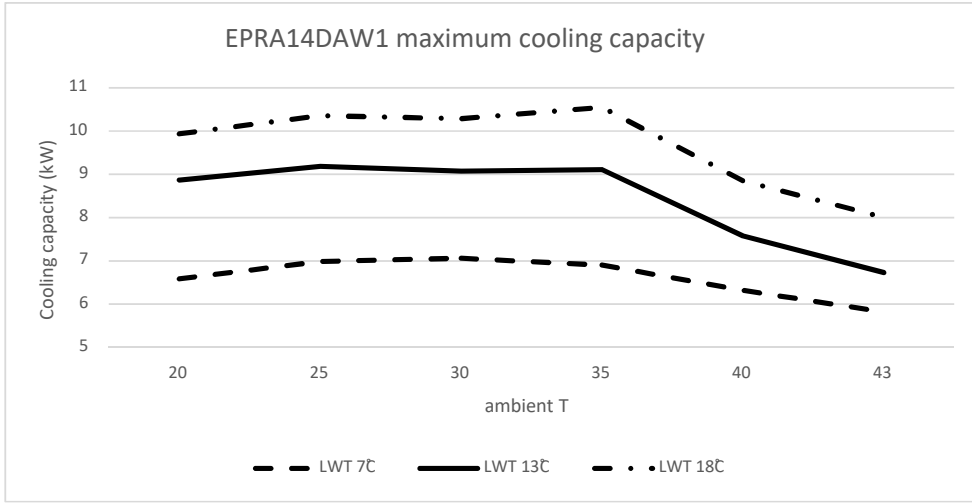


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4 Capacity graphs

4 - 1 Cooling Capacity Graphs

EPRA014-018DW



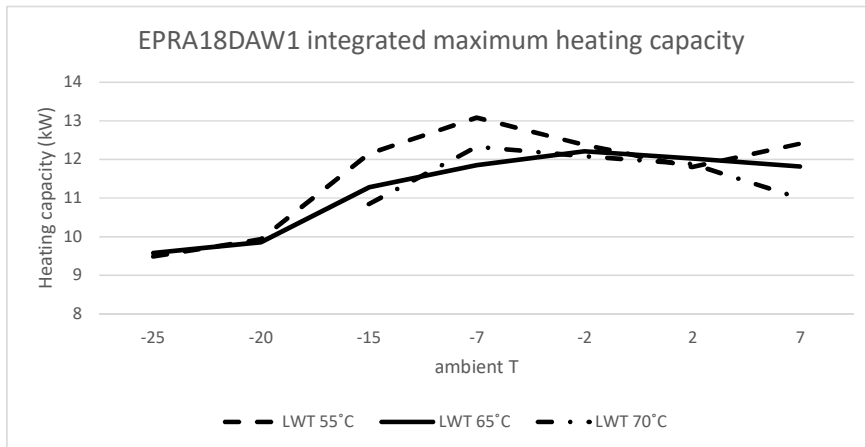
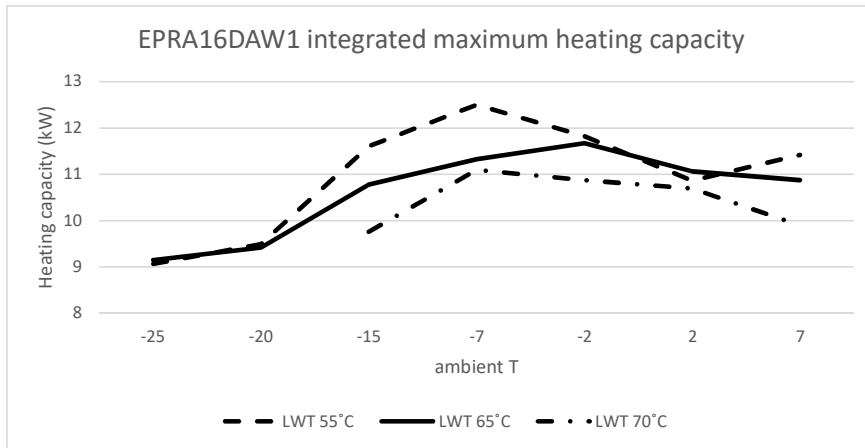
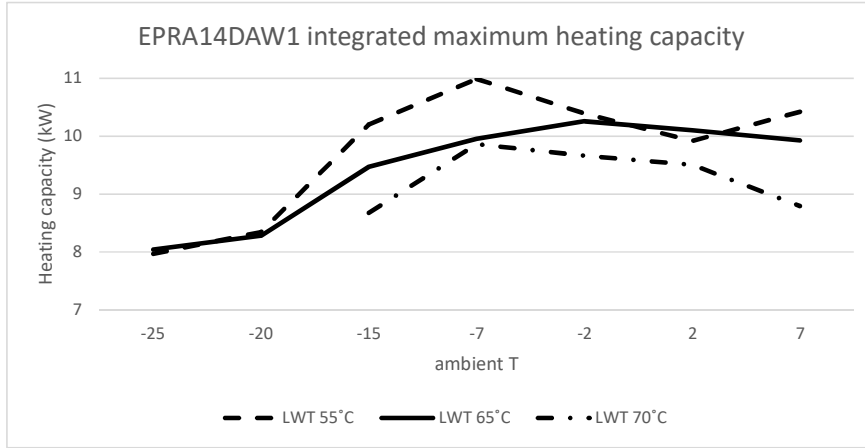
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4 Capacity graphs

4 - 2 Heating Capacity Graphs

4

EPRA014-018DW

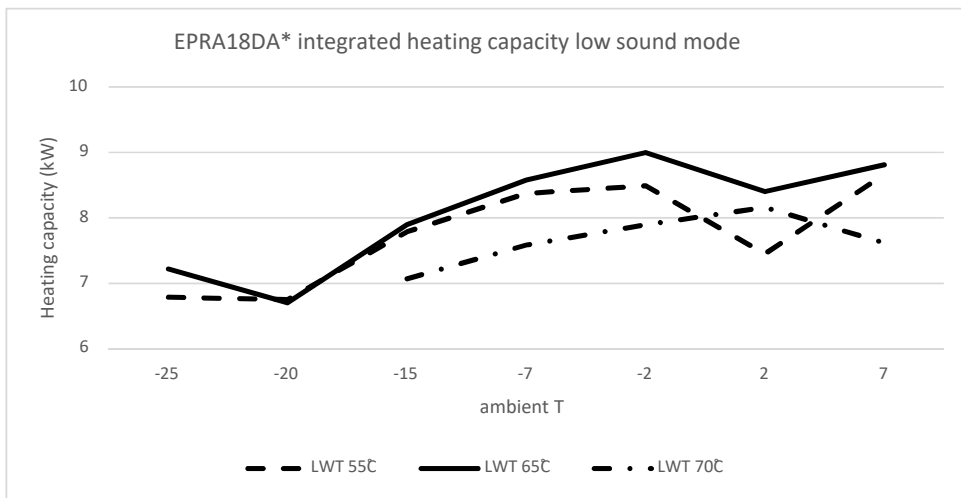
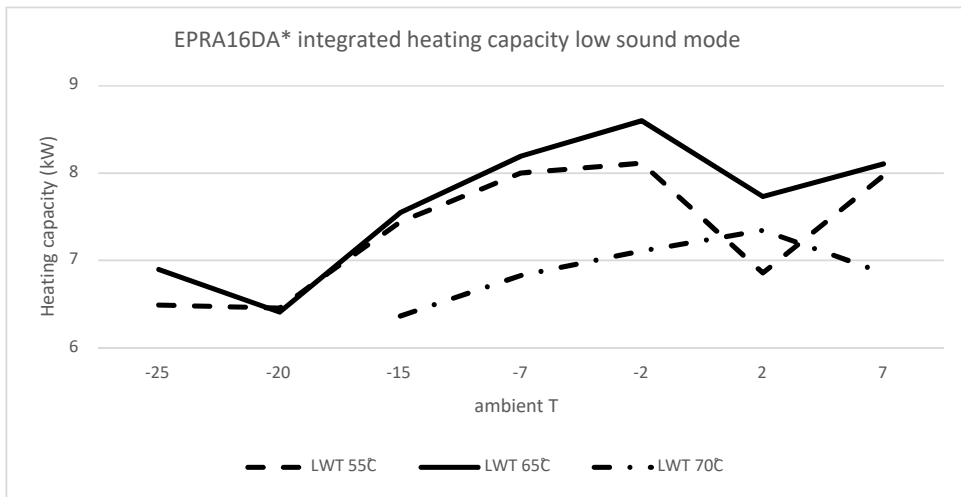
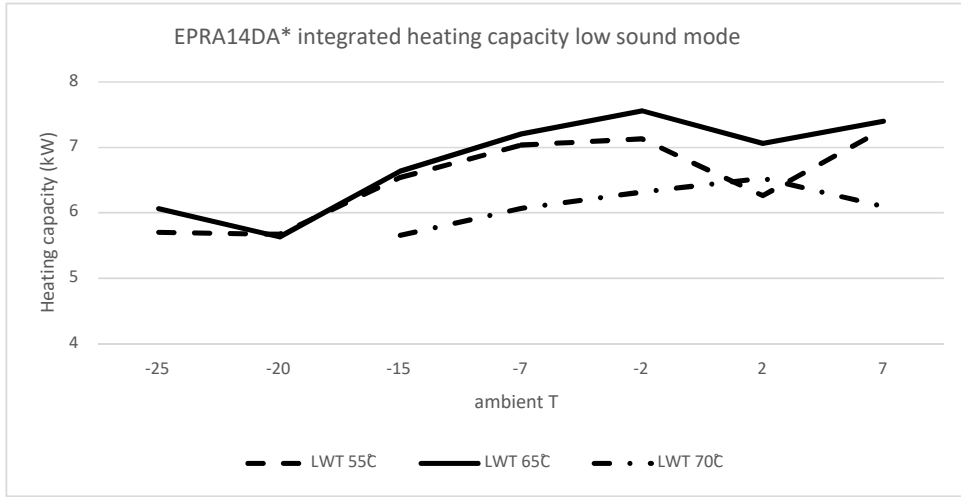


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4 Capacity graphs

4 - 2 Heating Capacity Graphs

EPRA014-018DV
EPRA014-018DW



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5 Capacity tables

5 - 1 Certification Programs

EPRA014-018DW EPRA014-018DV

5

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°C]	LWC [°C]	EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		Used for:
			HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	
7/6	30	35	5,69	4,67	9,00	5,00	9,00	5,00	5,50	4,79	9,00	5,00	9,00	5,00	Keymark, EHPA
2/1	(30)	35	7,88	4,31	7,88	4,31	7,88	4,31	7,52	4,09	7,52	4,09	7,52	4,09	EHPA
-7/-8	(30)	35	10,81	3,27	11,78	3,21	12,78	3,15	10,18	3,21	11,40	3,13	12,67	3,05	General
7/6	40	45	7,92	3,42	7,92	3,42	7,92	3,42	7,92	3,42	7,92	3,42	7,92	3,42	General
7/6	47	55	7,24	3,01	7,24	3,01	7,24	3,01	7,24	2,93	7,24	2,93	7,24	2,93	Keymark, EHPA
-7/-8	47	55	9,81	2,25	9,81	2,25	9,81	2,25	9,21	2,22	9,21	2,22	9,21	2,22	SET Database

Rated data for certification programmes - cooling mode

Tamb [°C]	EWE [°C]	LWE [°C]	EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		Used for:
			CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	
35	23	18	10,55	4,13	11,51	4,11	12,46	4,09	10,55	4,13	11,51	4,11	12,46	4,09	General
35	12	7	6,90	2,7	7,88	2,69	8,86	2,68	6,90	2,7	7,88	2,69	8,86	2,68	DAPT General

Rated data for certification programmes - domestic hot water performance

Indoor unit Outdoor unit	ETV 16S18D(E)JA		ETV 16S21D(E)JA		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		Used for:		
	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1			
Application	Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Keymark		
Domestic hot water tank volume	180L		230L		294L		294L		294L		294L		294L		294L				
Tapping pattern	L		XL		L		L		L		L		L		L				
Heat-up time (h:mm:ss)	01:06:36		01:19:36		01:25:00	01:41:00	01:25:00	01:41:00	01:25:00	01:41:00	01:25:00	01:41:00	02:18:00	01:46:00	02:11:00	02:18:00		01:46:00	02:11:00
Q _{wh} [kW]	52,5		52,5		47,0		47,0		47,0		47,0		47,0		47,0			48,0	
P _{wh} [W]	34,2		42,9		49,2		58,5		49,2		58,5		51,0		57,1			57,1	
V _{eq40} [l]	240		298		349,0		349,0		349,0		349,0		237,2		237,2			215,7	
η _{wh} [%]	109,5		105,7		108,3		106,6		101		101		111		115			108	
COP _{DHW}	2,62		2,51		2,61		2,55		2,38		2,38		2,67		2,75			2,58	

Symbols

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

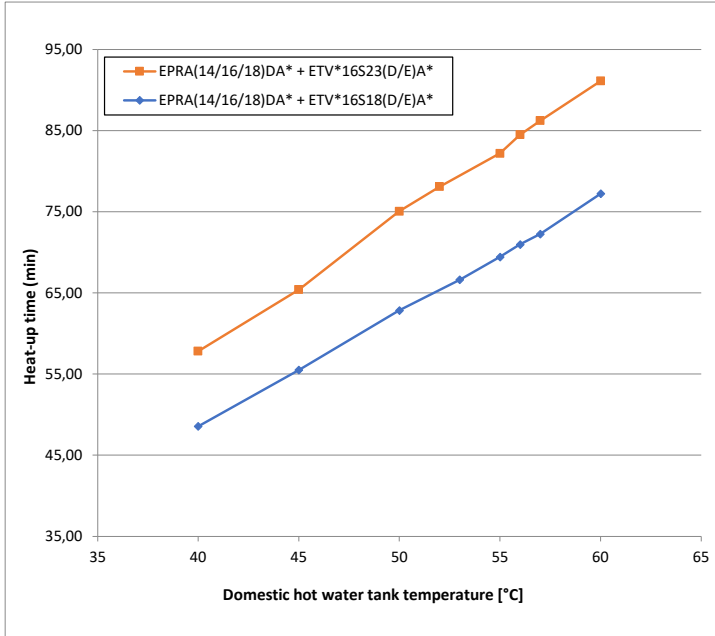
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5 Capacity tables

5 - 2 Domestic Hot Water performance

EPRA014-018DV
EPRA014-018DW

Heat-up times



Model name	Heat-up time domestic hot water tank until 45°C
EPRA(14/16/18)DA* + ETV*16S18(D/E)A*	55 min.
EPRA(14/16/18)DA* + ETV*16S23(D/E)A*	65 min.

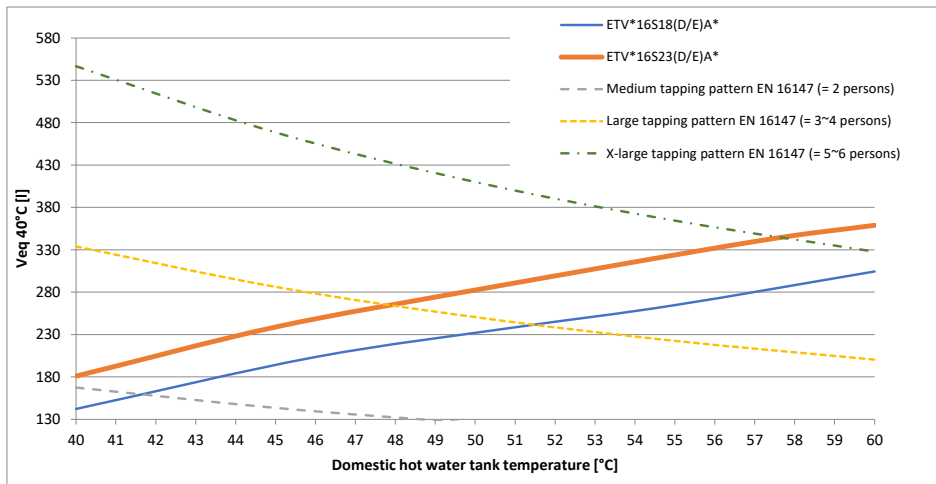
Notes

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

Selection guide for the domestic hot water tank volume

(1)

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



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

Notes

- According to EN16147.

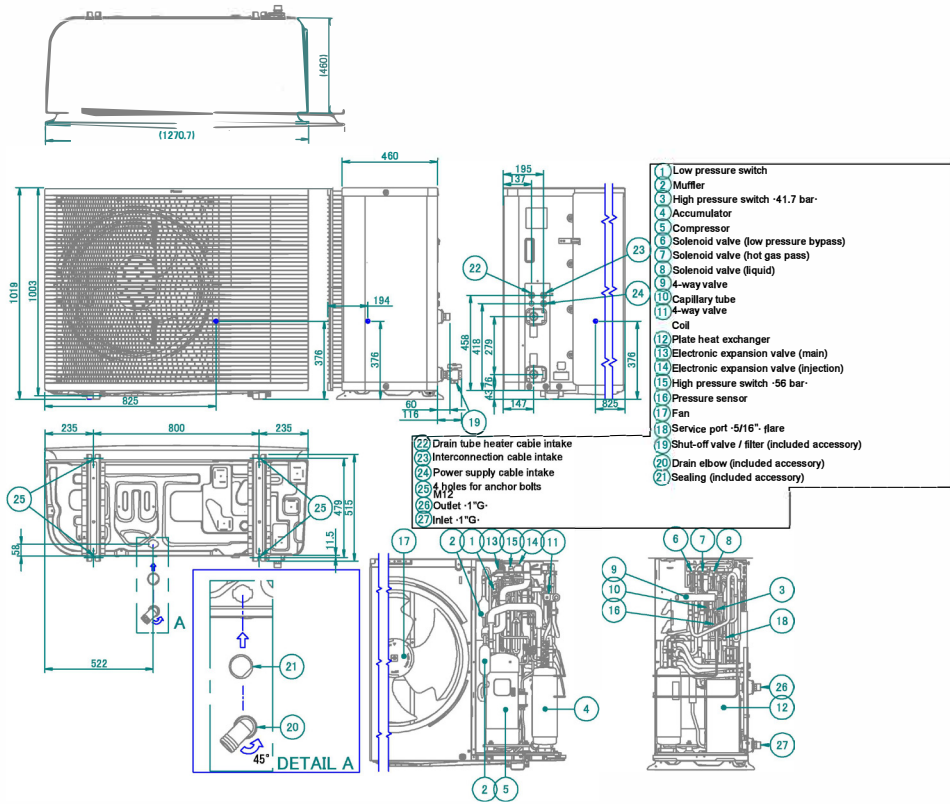
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6 Dimensional drawings

6 - 1 Dimensional Drawings

6

EPRA014-018DV
EPRA014-018DW



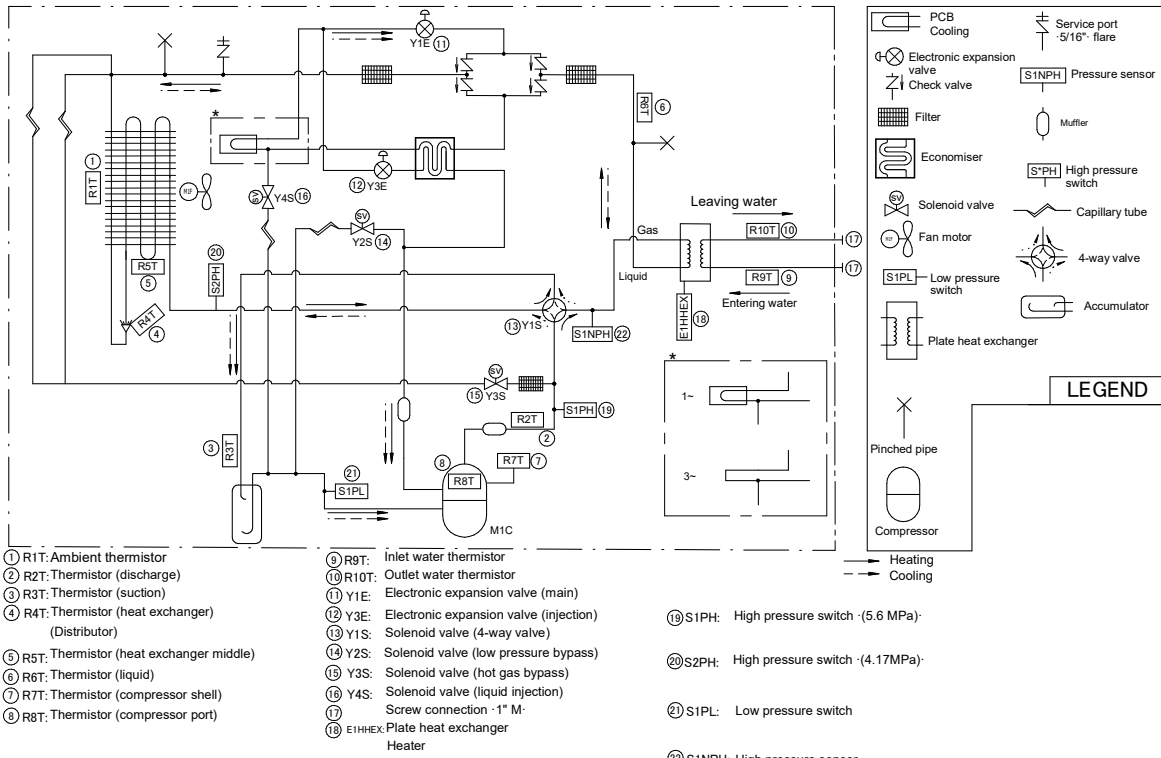
3D124101C

7 Piping diagrams

7 - 1 Piping Diagrams

EPRA014-018DV
EPRA014-018DW

Outdoor unit

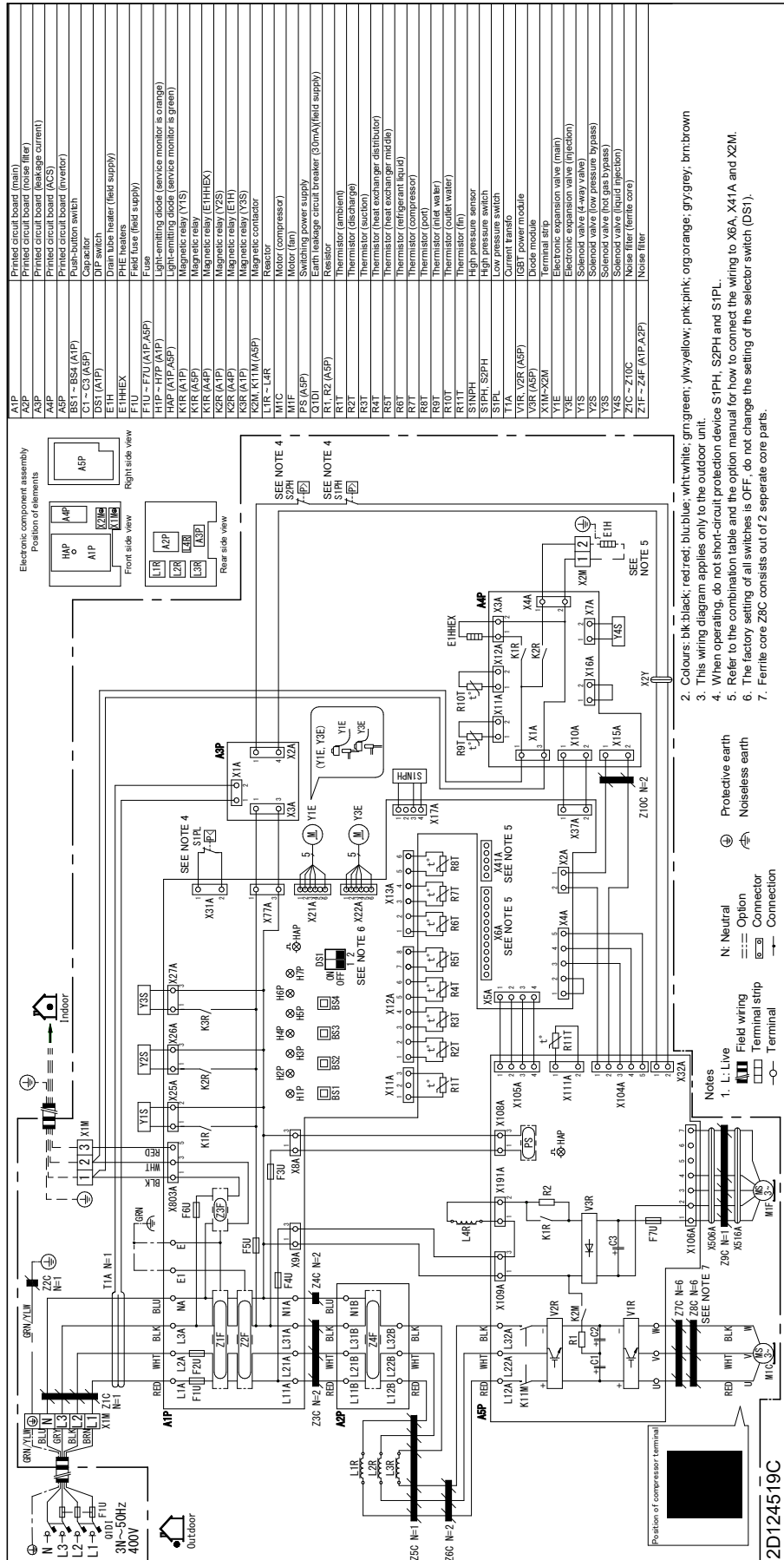


3D124079C

8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

EPRA014-018DW



2D124519C

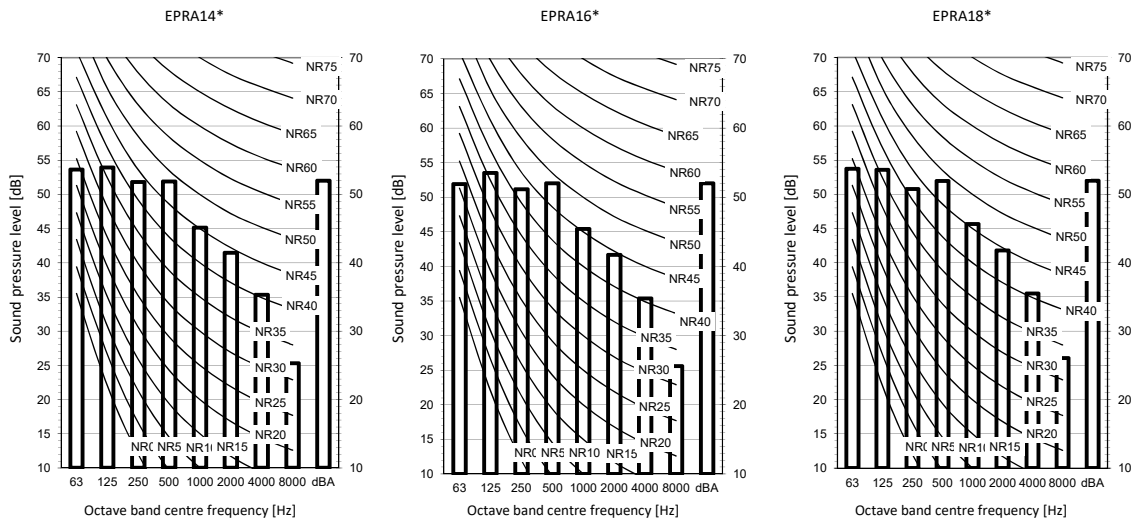
9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

EPRA014-018DV

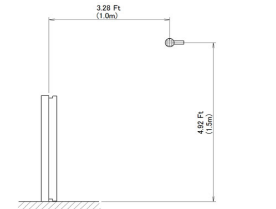
EPRA014-018DW

Cooling Sound



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.

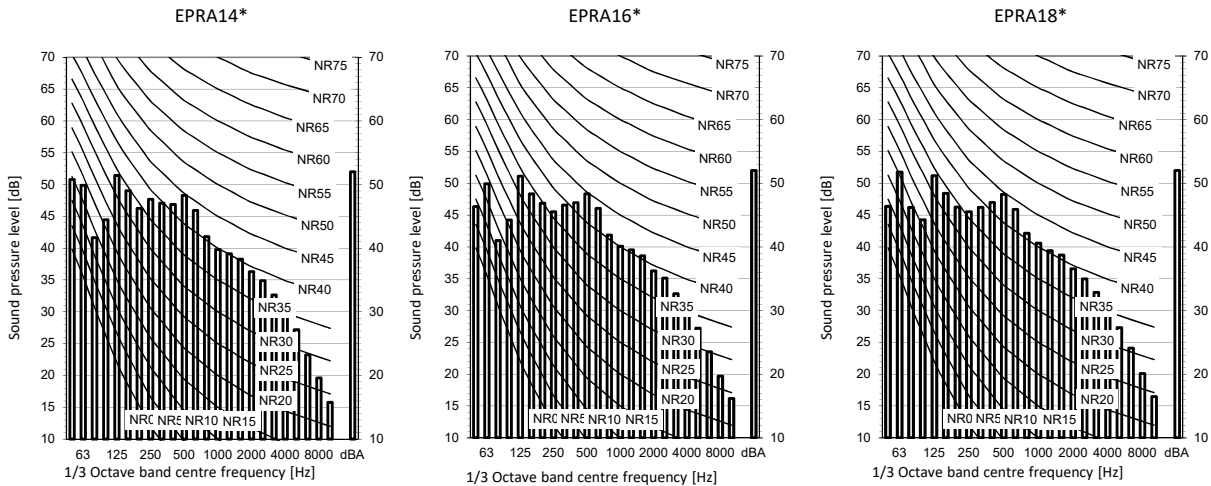


Measuring location (discharge side)

3D126758-1

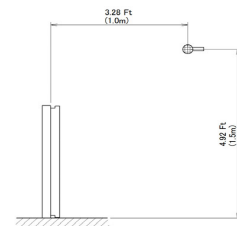
EPRA014-018DV

EPRA014-018DW



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.



Measuring location (discharge side)

3D126758-2

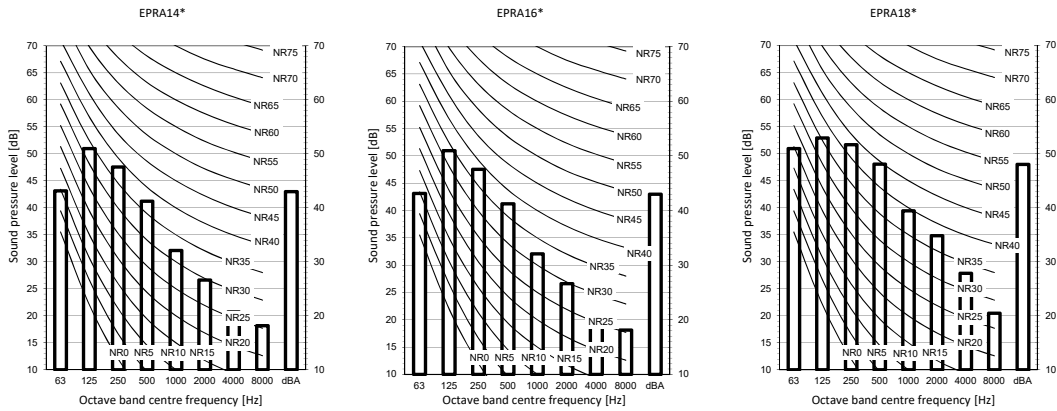
9 Sound data

9 - 2 Sound Pressure Spectrum - Heating

9

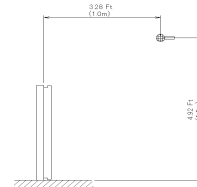
EPRA014-018DV
EPRA014-018DW

Heating Sound



Notes (graphics only)

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.



		Day			Night		
		Sound power level [dB]			Sound power level [dB]		
Day	Night	EPRA14*	EPRA16*	EPRA18*	EPRA14*	EPRA16*	EPRA18*
Default	Low noise level -2	60,2	60,2	60,2	53,7	53,7	53,7
Low noise level -2	Low noise level -3	53,7	53,7	53,7	49,5	49,5	49,5

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

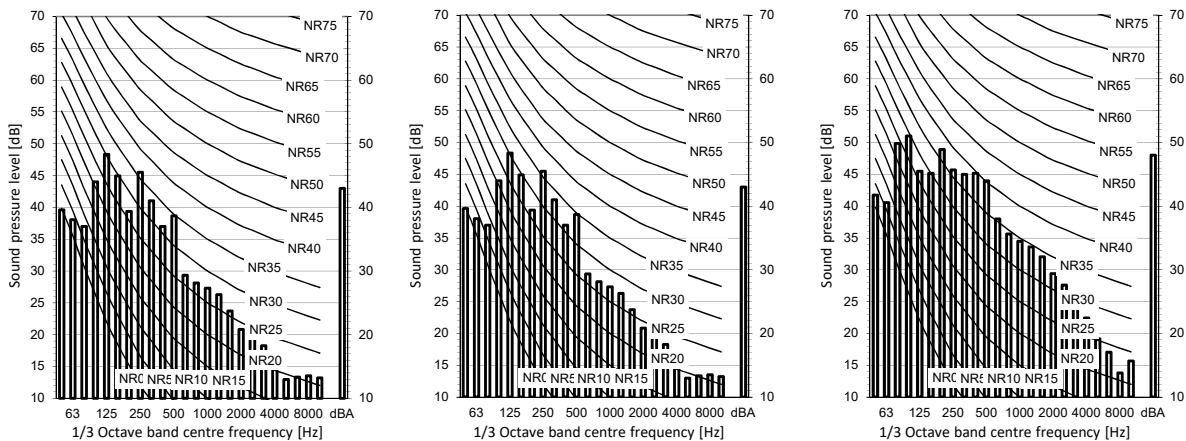
3D125215A-1

EPRA014-018DV
EPRA014-018DW

EPRA14*

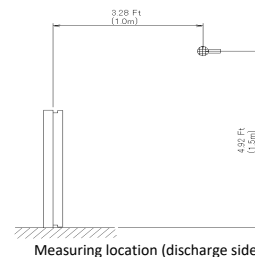
EPRA16*

EPRA18*



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.



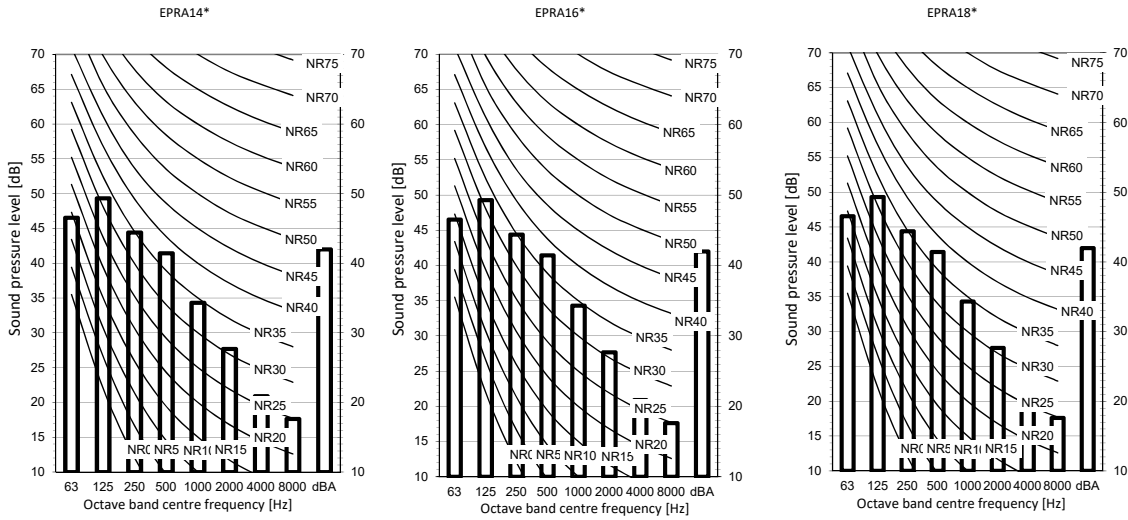
3D125215A-2

9 Sound data

9 - 3 Sound Pressure Spectrum Quiet Mode

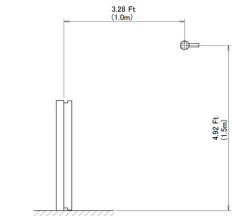
EPRA014-018DV
EPRA014-018DW

Heating Low Sound Mode 2



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.



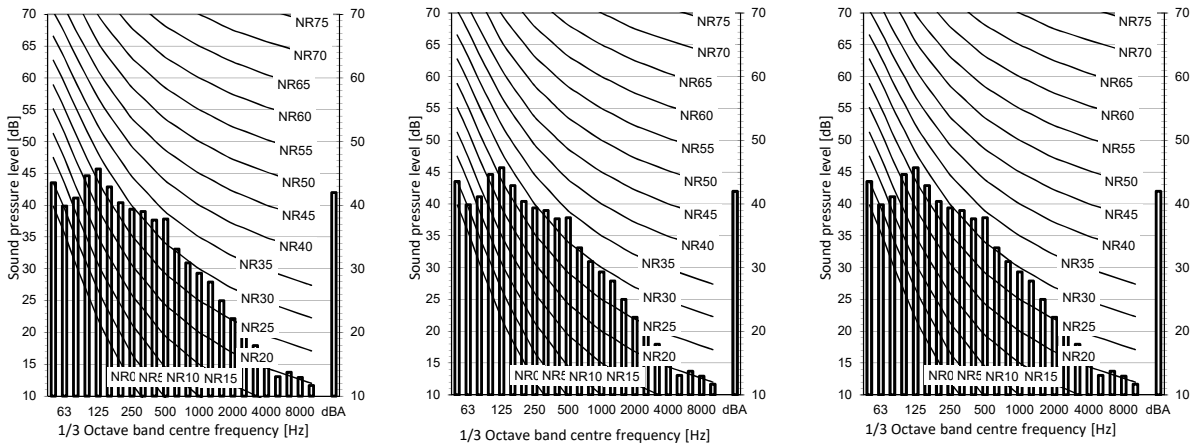
3D125214-1

EPRA014-018DV
EPRA014-018DW

EPRA14*

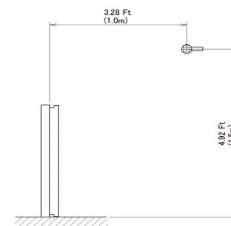
EPRA16*

EPRA18*



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.



3D125214-2

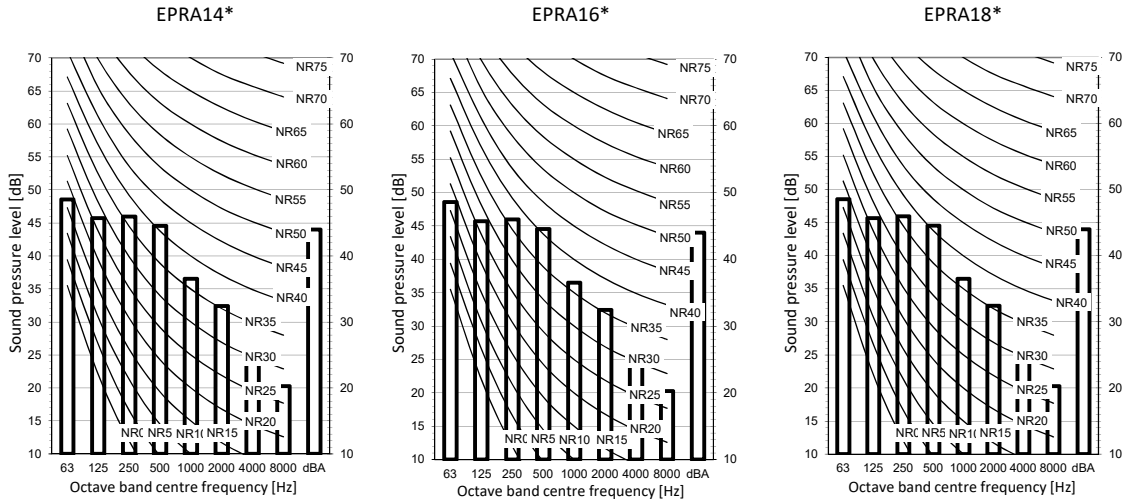
9 Sound data

9 - 3 Sound Pressure Spectrum Quiet Mode

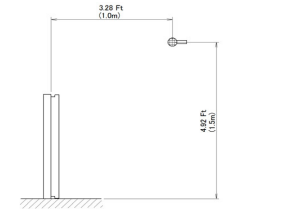
9

EPRA014-018DV

EPRA014-018DW Cooling: Low Sound Mode 2



- 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.

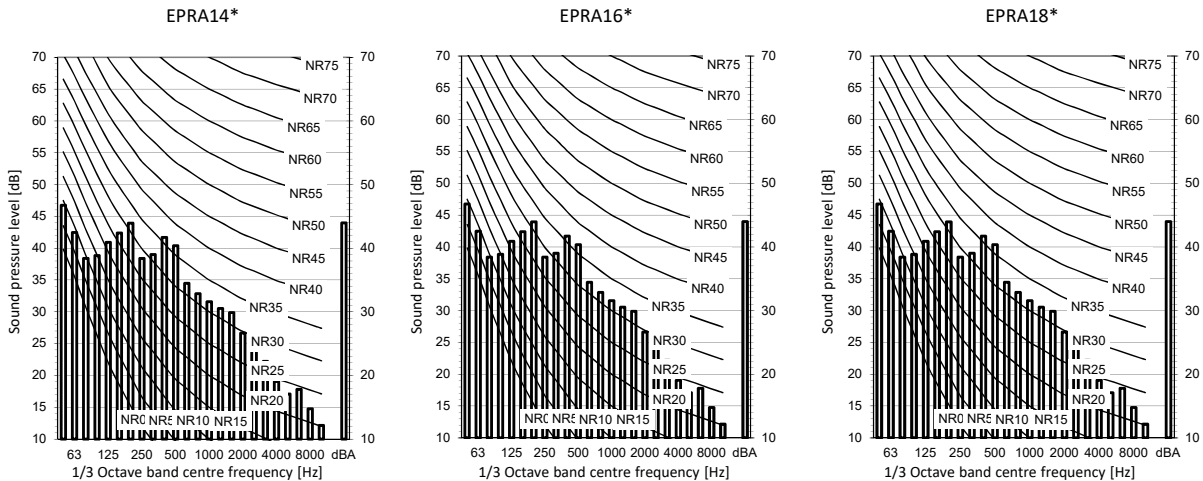


Measuring location (discharge side)

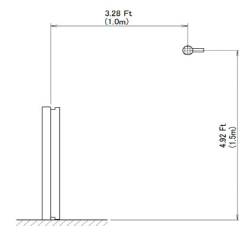
3D126757-1

EPRA014-018DV

EPRA014-018DW



- 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.



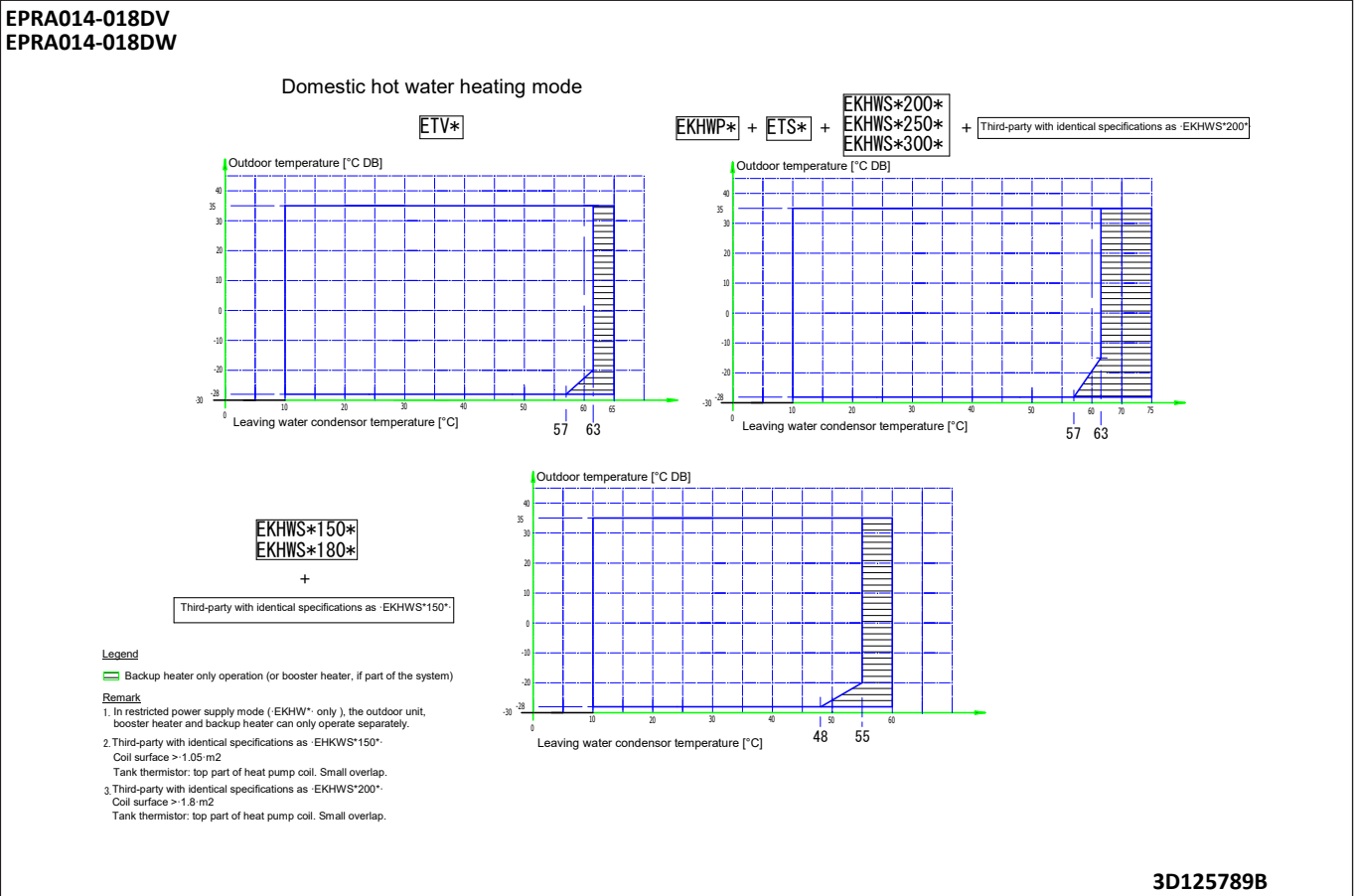
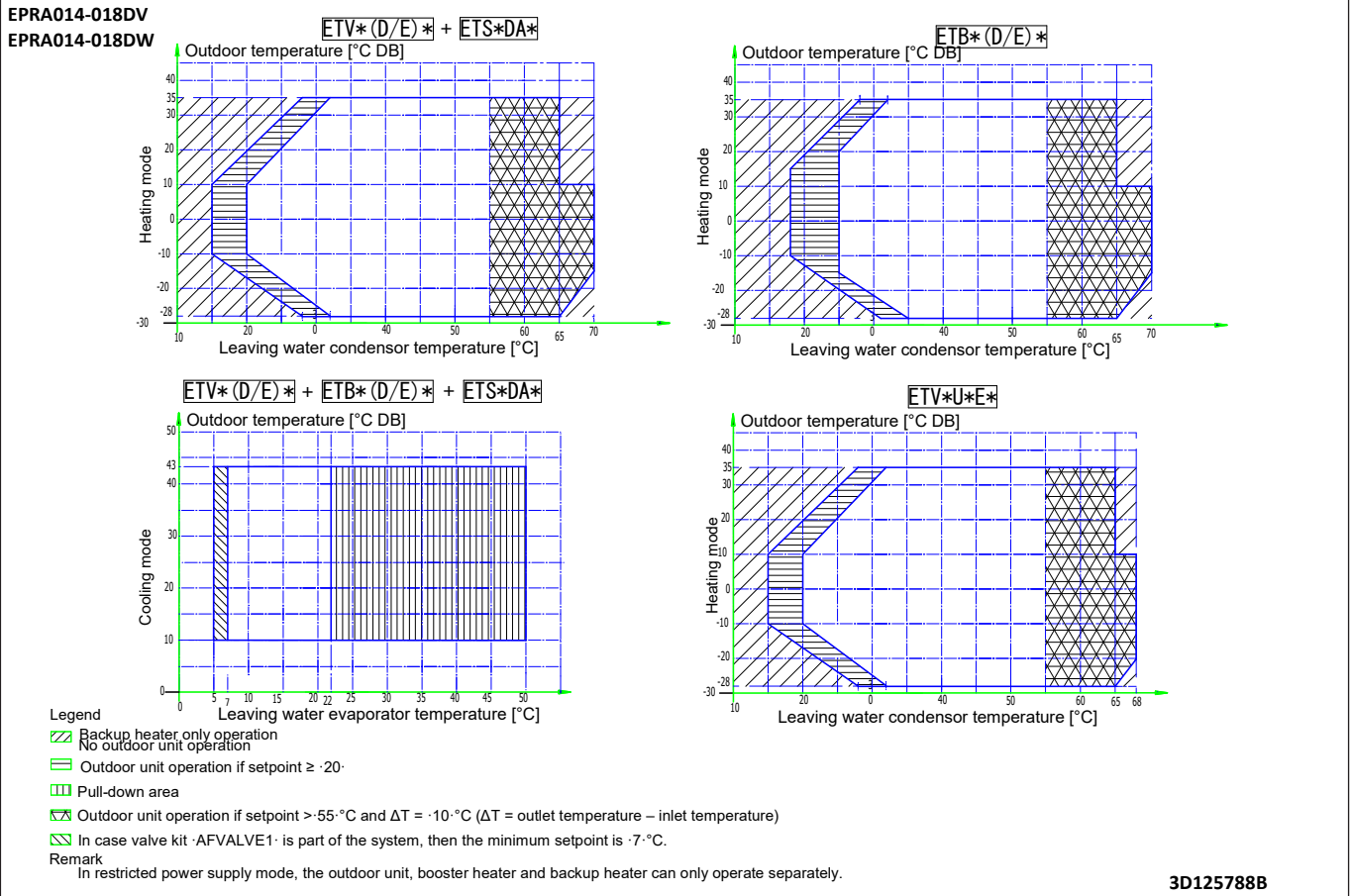
Measuring location (discharge side)

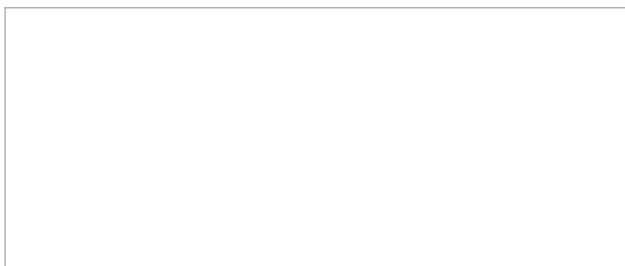
3D126757-2

11 Operation range

11 - 1 Operation Range

11





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05/2021



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