



Daikin Altherma high
temperature split
Technical Data
EPRA14-18DW7

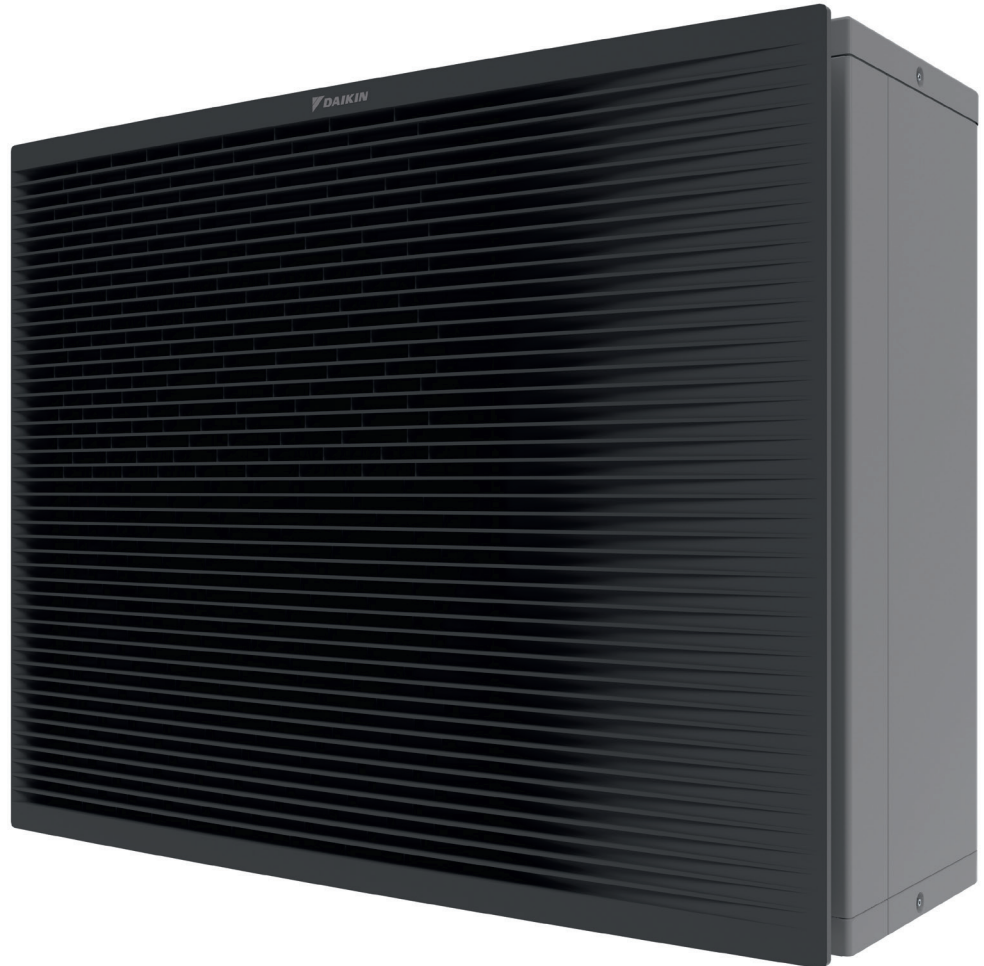


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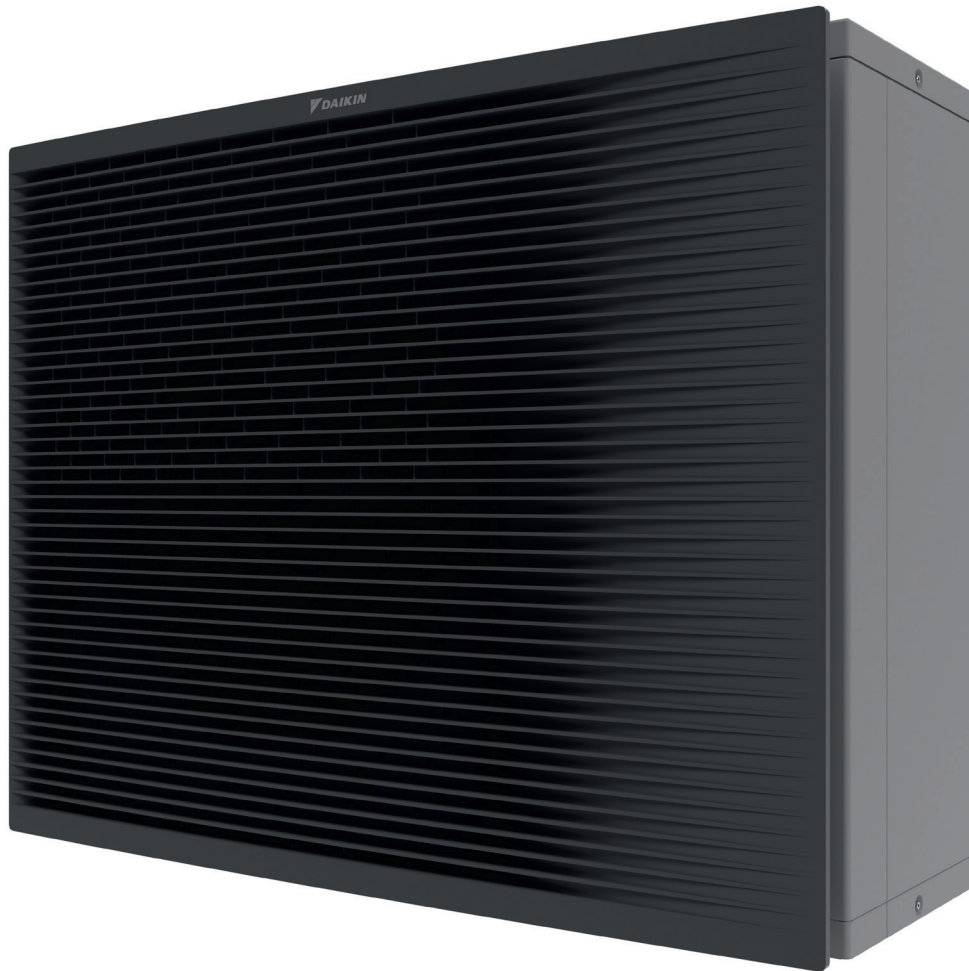
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1 Features

1 - 1 EPRA14-18DW7

- › 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

2 - 1 Specifications

Technical specifications				ETBH16E6V7 + EPRA14DW17	ETBH16E6V7 + EPRA16DW17	ETBH16E6V7 + EPRA18DW17	
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 GE0 25-125 130 PWM					
	Nominal ESP Heating unit		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	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
	Name and address						
	Name or trademark		Daikin Europe N.V.				
	Product description	Air-to-water heat pump		Yes			
		Brine-to-water heat pump		No			
		Heat pump combination heater		Yes			
		Low-temperature heat pump		No			
		Supplementary heater integrated		Yes			
		Water-to-water heat pump		No			
	LW(A) Sound power level (according to EN14825)	Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	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 Cdh (Degradation heating)		1.0		
			COPd		2.43		

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Technical specifications				ETBH16E6V7 + EPRA14DW17	ETBH16E6V7 + EPRA16DW17	ETBH16E6V7 + EPRA18DW17	
Space heating Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	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		
	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		
		WTOL	°C		55		
	Rated heat output supplementary capacity	Psup (at Tdesign -10°C)		kW		0.0	
		Tbiv	COPd		2.12		
		(bivalent temperature)	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)			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		

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Technical specifications				ETBH16E6V7 + EPRA14DW17	ETBH16E6V7 + EPRA16DW17	ETBH16E6V7 + EPRA18DW17
Space heating 	Cold climate water outlet 55°C	C Condition (7°C _D - B/6°C _{WB})	COP _d			4.69
			Pd _h	kW		5.6
			PER _d	%		187.6
		D Condition (12°C _D - B/11°C _{WB})	COP _d			6.12
			Pd _h	kW		6.2
			PER _d	%		244.8
		Tol (tem- perature operating limit)	COP _d			1.65
			Pd _h	kW		10.6
			PER _d	%		66.0
			TOL	°C		-22
			WTOL	°C		55
	G Condition (-15°C _D B/-)	COP _d			2.17	
		Pd _h	kW		10.3	
		PER _d	%		86.8	
	T _{biv} (bivalent tempera- ture)	COP _d			1.90	
		Pd _h	kW		11.0	
		PER _d	%		76.0	
	Rated heat output sup- plementary capacity	T _{biv}	°C		-18	
		P _{sup} (at T _{design} -22°C)	kW		1.9	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh		4,453
			η _s (Seasonal space heating efficiency)	%		166
			Prated at 2°C	kW		14.1
Q _{he} Annual energy consumption (GCV)			Gj		16	
B Condition (2°C _D - B/1°C _{WB})		Cd _h (Degradation heating)			1.0	
		COP _d			2.62	
		Pd _h	kW		11.4	
C Condition (7°C _D - B/6°C _{WB})		PER _d	%		104.8	
		Cd _h (Degradation heating)			1.0	
		COP _d			3.78	
D Condition (12°C _D - B/11°C _{WB})		Pd _h	kW		9.0	
		PER _d	%		151.2	
	Cd _h (Degradation heating)			1.0		
T _{biv} (bivalent temperature)	COP _d			5.63		
	Pd _h	kW		5.9		
	PER _d	%		225.2		
	COP _d			3.43		
	Pd _h	kW		11.1		

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Technical specifications					ETBH16E6V7 + EPRA14DW17	ETBH16E6V7 + EPRA16DW17	ETBH16E6V7 + EPRA18DW17	
Space heating	Warm climate water outlet 55°C	Tbiv	PERd	%	137.2			
		(bivalent temperature)	Tbiv	°C	5			
	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+++		
		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			
Tbiv (bivalent temperature)	COPd				2.97			
		Pdh		kW	10.7			
		PERd		%	118.8			
		Tbiv		°C	-7			
Rated heat output supplementary capacity		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			

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Technical specifications				ETBH16E6V7 + EPRA14DW17	ETBH16E6V7 + EPRA16DW17	ETBH16E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)			27	
			A Condition (-7°CDB)	COPd			3.50
			Pdh	kW			8.0
		B Condition (2°CDB)	PERd	%			140.0
			Cdh (Degradation heating)				1.0
			COPd				5.07
		B/1°CWB)	Pdh	kW			4.9
			PERd	%			202.8
			C Condition (7°CDB)	Cdh (Degradation heating)			1.0
		B/6°CWB)	COPd				6.10
			Pdh	kW			5.3
			PERd	%			244.0
		D Condition (12°CDB)	Cdh (Degradation heating)				1.0
			COPd				7.03
			Pdh	kW			5.7
		B/11°CWB)	PERd	%			281.2
			Tol (temperature operating limit)	COPd			2.16
			Pdh	kW			10.1
		G Condition (-15°CDB/-)	PERd	%			86.4
			TOL	°C			-22
			WTOL	°C			35
		Tbiv (bivalent temperature)	COPd				2.62
			Pdh	kW			10.7
			PERd	%			104.8
Rated heat output supplementary capacity	Tbiv	°C			-15		
	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	
B Condition (2°CDB)	Qhe Annual energy consumption (GCV)	Gj				11	
	Cdh (Degradation heating)				1.0		
	COPd				3.51		
B/1°CWB)	Pdh	kW			10.0		
	PERd	%			140.4		
	C Condition (7°CDB)	Cdh (Degradation heating)				1.0	
COPd					5.67		
Pdh		kW			8.3		
Tbiv (bivalent temperature)	PERd	%			226.8		
	COPd				4.96		
	Pdh	kW			9.8		
D Condition (12°CDB)	PERd	%			198.4		
	Tbiv	°C			5		
	Cdh (Degradation heating)				1.0		
B/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)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.

Technical specifications				ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17
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)


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Technical specifications				ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17		
Pump	Type			Grundfos UPMXL GE0 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				
	LW(A) Sound power level (according to EN14825)	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°CWB)	Cdh (Degradation heating)		1.0		
				COPd		2.43		


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Technical specifications				ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17	
Space heating 	Average climate water outlet	A Condition (-7°CDB/-8°CWB)	Pdh	kW		11.1	
			PERd	%		97.2	
	55°C	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			
	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			
		WTOL	°C	55			
	Rated heat output supplementary capacity	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)			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			

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Technical specifications				ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17
Space heating 	Cold climate water outlet 55°C	C Condition (7°CDB)	COPd			4.69
			Pdh	kW		5.6
			PERd	%		187.6
		D Condition (12°CDB)	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
			WTOL	°C		55
		G Condition (-15°CDB/-)	COPd			2.17
			Pdh	kW		10.3
			PERd	%		86.8
		Tbiv (bivalent temperature)	COPd			1.90
	Pdh		kW		11.0	
	PERd		%		76.0	
	Rated heat output supplementary capacity	Tbiv	°C		-18	
		Psup (at Tdesign -22°C)	kW		1.9	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh		4,453
			ηs (Seasonal space heating efficiency)	%		166
			Prated at 2°C	kW		14.1
			Qhe Annual energy consumption (GCV)	Gj		16
B Condition (2°CDB)			Cdh (Degradation heating)			1.0
		COPd			2.62	
		Pdh	kW		11.4	
C Condition (7°CDB)		PERd	%		104.8	
		Cdh (Degradation heating)			1.0	
		COPd			3.78	
D Condition (12°CDB)		Pdh	kW		9.0	
		PERd	%		151.2	
	Cdh (Degradation heating)			1.0		
Tbiv (bivalent temperature)	COPd			5.63		
	Pdh	kW		5.9		
	PERd	%		225.2		
	COPd			3.43		
	Pdh	kW		11.1		

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Technical specifications					ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17		
Space heating	Warm climate water outlet 55°C	Tbiv	PERd	%	137.2				
		(bivalent temperature)	Tbiv	°C	5				
	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+++			
		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				
Tbiv (bivalent temperature)	COPd				2.97				
		Pdh		kW	10.7				
		PERd		%	118.8				
		Tbiv		°C	-7				
Rated heat output supplementary capacity	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				

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Technical specifications				ETBH16E9W7 + EPRA14DW17	ETBH16E9W7 + EPRA16DW17	ETBH16E9W7 + EPRA18DW17
Space heating 	Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj		27
		A Condition (-7°CDB)	COPd			3.50
			Pdh	kW		8.0
			PERd	%		140.0
		B Condition (2°CDB)	Cdh (Degradation heating)			1.0
			COPd			5.07
			Pdh	kW		4.9
			PERd	%		202.8
		C Condition (7°CDB)	Cdh (Degradation heating)			1.0
			COPd			6.10
			Pdh	kW		5.3
			PERd	%		244.0
		D Condition (12°CDB)	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 supplementary capacity	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)	Cdh (Degradation heating)			1.0
			COPd			3.51
			Pdh	kW		10.0
			PERd	%		140.4
		C Condition (7°CDB)	Cdh (Degradation heating)			1.0
			COPd			5.67
Space heating 	Warm climate water outlet 35°C	B/6°CWB)	Pdh	kW		8.3
			PERd	%		226.8
			Tbiv	°C		5
		Tbiv (bivalent temperature)	COPd			4.96
			Pdh	kW		9.8
			PERd	%		198.4
		D Condition (12°CDB)	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.

Technical specifications				ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17
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)	


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Technical specifications					ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17
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 Heating unit	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 (according to EN14825)	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		
			ηs (Seasonal space heating efficiency)	%	142		
			Prated at -10°C	kW	13		
			Qhe Annual energy consumption (GCV)	Gj	26		
			SCOP		3.63		


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Technical specifications			ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17		
Space heating 	Average climate water outlet 55°C	General	Seasonal space heating eff. class		A++		
		A Condition	Cdh (Degradation heating)		1.0		
		(-7°CDB/-8°CWB)	COPd		2.43		
			Pdh	kW	11.1		
			PERd	%	97.2		
		B Condition	Cdh (Degradation heating)		1.0		
		(2°CDB/-1°CWB)	COPd		3.52		
			Pdh	kW	6.7		
			PERd	%	140.8		
		C Condition	Cdh (Degradation heating)		1.0		
		(7°CDB/6°CWB)	COPd		4.54		
			Pdh	kW	6.5		
			PERd	%	181.6		
		D Condition	Cdh (Degradation heating)		1.0		
		(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 supplementary capacity		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	9,589	
				ηs (Seasonal space heating efficiency)	%	126	
				Prated at -22°C	kW	13	
	Qhe Annual energy consumption (GCV)		Gj	35			
A Condition	Cdh (Degradation heating)			1.0			
(-7°CDB/-8°CWB)	COPd			2.74			
	Pdh		kW	7.5			
	PERd		%	109.6			
B Condition	Cdh (Degradation heating)			1.0			
(2°CDB/1°CWB)	COPd			3.67			

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Technical specifications				ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	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	
		Tol (temperature operating limit)	PERd	%	244.8	
			COPd		1.65	
	Pdh		kW	10.6		
	PERd		%	66.0		
	G Condition (-15°CDB/-)	TOL	°C	-22		
		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 supplementary capacity	Tbiv	°C	-18			
	Psup (at Tdesign -22°C)	kW	1.9			
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,316		
		ηs (Seasonal space heating efficiency)	%	172		
		Prated at 2°C	kW	14.1		
		Qhe Annual energy consumption (GCV)	Gj	16		
	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		3.78		
	D Condition (12°CDB/11°CWB)	Pdh	kW	9.0		
		PERd	%	151.2		
		Cdh (Degradation heating)		1.0		
		COPd		5.63		
		Pdh	kW	5.9		

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Technical specifications				ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17	
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	PERd	%	225.2		
		(bivalent temperature)	Tbiv	COPd		3.43	
Pdh			kW	11.1			
PERd			%	137.2			
Tbiv			°C	5			
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	
			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)	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			
ToI (temperature operating limit)	PERd			282.8			
	COPd			2.88			
	Pdh		kW	12.1			
	PERd		%	115.2			
	TOL		°C	-10			
Tbiv (bivalent temperature)	WTOL			35			
	COPd			2.97			
	Pdh		kW	10.7			
	PERd		%	118.8			
	Tbiv		°C	-7			
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)		kW	0.4			

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Technical specifications				ETBX16E6V7 + EPRA14DW17	ETBX16E6V7 + EPRA16DW17	ETBX16E6V7 + EPRA18DW17	
Space heating Cold climate water outlet 35°C	General	Annual energy consumption	kWh			7,356	
		η_s (Seasonal space heating efficiency)	%				165
		Prated at -22°C	kW				13
		Qhe Annual energy consumption (GCV)	Gj				26
		A Condition (-7°CDB)	COPd				3.50
			Pdh	kW			8.0
			PERd	%			140.0
		B Condition (2°CDB)	Cdh (Degradation heating)				1.0
			COPd				5.07
			Pdh	kW			4.9
			PERd	%			202.8
		C Condition (7°CDB)	Cdh (Degradation heating)				1.0
			COPd				6.10
			Pdh	kW			5.3
			PERd	%			244.0
		D Condition (12°CDB)	Cdh (Degradation heating)				1.0
			COPd				7.03
			Pdh	kW			5.7
			PERd	%			281.2
		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 supplementary capacity	Psup (at Tdesign -22°C)	kW			2.4		
Warm climate water outlet 35°C	General	Annual energy consumption	kWh			2,855	
		η_s (Seasonal space heating efficiency)	%			231	
		Prated at 2°C	kW			13	
		Qhe Annual energy consumption (GCV)	Gj			10	
		B Condition (2°CDB)	Cdh (Degradation heating)				1.0
			COPd				3.51
			Pdh	kW			10.0
Space heating Warm climate water outlet 35°C	B Condition (2°CDB)		PERd	%		140.4	
		C Condition (7°CDB)		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)		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 $dT = 3-8^{\circ}C$ at $T_a 7^{\circ}C$ |

(2)Condition: T_a DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ ($dT = 5^{\circ}C$) |

(3)Cooling: EW $23^{\circ}C$; LW $18^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

(4)Cooling: EW $12^{\circ}C$; LW $7^{\circ}C$; ambient conditions: $35^{\circ}CDB$ |

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

(6)DB/WB $7^{\circ}C/6^{\circ}C$ - LWC $35^{\circ}C$ ($dT=5^{\circ}C$) with pump at full speed |

Test at T_a DB/WB $7^{\circ}C/6^{\circ}C$. According to EN 16147.

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Technical specifications					ETBX16E9W7 + EPRA14DW17	ETBX16E9W7 + EPRA16DW17	ETBX16E9W7 + EPRA18DW17	
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)		
				4.79 (2)	5.00 (2)			
				4.13 (3) / 2.70 (4)	4.11 (3) / 2.69 (4)	4.09 (3) / 2.68 (4)		
COP								
EER								
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		
	LW(A) Sound power level (according to EN14825)	Indoor	Water-to-water heat pump		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	7,122			
			ηs (Seasonal space heating efficiency)	%	142			
			Prated at -10°C	kW	13			
			Qhe Annual energy consumption (GCV)	Gj	26			
			SCOP		3.63			


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Technical specifications			ETBX16E9W7 + EPRA14DW17	ETBX16E9W7 + EPRA16DW17	ETBX16E9W7 + EPRA18DW17	
Space heating 	Average climate water outlet 55°C	General	Seasonal space heating eff. class		A++	
		A Condition	Cdh (Degradation heating)		1.0	
		(-7°CDB)	COPd		2.43	
		B/-8°CWB)	Pdh	kW	11.1	
			PERd	%	97.2	
			Cdh (Degradation heating)		1.0	
		B Condition (2°CDB)	COPd		3.52	
			B/1°CWB)	Pdh	kW	6.7
				PERd	%	140.8
		C Condition (7°CDB)	Cdh (Degradation heating)		1.0	
			COPd		4.54	
			B/6°CWB)	Pdh	kW	6.5
		PERd		%	181.6	
		D Condition (12°CDB)	Cdh (Degradation heating)		1.0	
			COPd		5.97	
			B/11°CWB)	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 supplementary capacity	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	9,589
				ηs (Seasonal space heating efficiency)	%	126
				Prated at -22°C	kW	13
				Qhe Annual energy consumption (GCV)	Gj	35
				A Condition	Cdh (Degradation heating)	
			(-7°CDB)	COPd		2.74
B/-8°CWB)	Pdh			kW	7.5	
	PERd			%	109.6	
B Condition (2°CDB)	Cdh (Degradation heating)			1.0		
	COPd			3.67		

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Technical specifications				ETBX16E9W7 + EPRA14DW17	ETBX16E9W7 + EPRA16DW17	ETBX16E9W7 + EPRA18DW17
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB- B/1°CWB)	Pdh	kW		5.8
			PERd	%		146.8
		C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0
			COPd		4.69	
			Pdh	kW	5.6	
			PERd	%	187.6	
		D Condition (12°CDB- B/11°CWB)	COPd		6.12	
			Pdh	kW	6.2	
		Tol (tem- perature operating limit)	PERd	%	244.8	
			COPd		1.65	
	Pdh		kW	10.6		
	PERd		%	66.0		
	TOL		°C	-22		
	Warm climate water outlet 55°C	General	WTOL	°C	55	
			COPd		2.17	
			Pdh	kW	10.3	
		B Condition (2°CDB- B/1°CWB)	PERd	%	86.8	
			COPd		1.90	
			Pdh	kW	11.0	
			PERd	%	76.0	
C Condition (7°CDB- B/6°CWB)		Tbiv	°C	-18		
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW	1.9	
		D Condition (12°CDB- B/11°CWB)	Annual energy consumption	kWh	4,316	
ηs (Seasonal space heating efficiency)	%		172			
Prated at 2°C	kW		14.1			
Qhe Annual energy consumption (GCV)	Gj		16			
B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0			
	COPd		2.62			
C Condition (7°CDB- B/6°CWB)	Pdh	kW	11.4			
	PERd	%	104.8			
	Cdh (Degradation heating)		1.0			
D Condition (12°CDB- B/11°CWB)	COPd		3.78			
	Pdh	kW	9.0			
E Condition (17°CDB- B/16°CWB)	PERd	%	151.2			
	Cdh (Degradation heating)		1.0			
	COPd		5.63			
F Condition (22°CDB- B/21°CWB)	Pdh	kW	5.9			

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Technical specifications				ETBX16E9W7 + EPRA14DW17	ETBX16E9W7 + EPRA16DW17	ETBX16E9W7 + EPRA18DW17	
Space heating 	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	PERd	%	225.2		
		Tbiv (bivalent temperature)	COPd		3.43		
			Pdh	kW	11.1		
	PERd		%	137.2			
	Water outlet 45°C	H Condition (-2°C/-)	Tbiv	°C	5		
			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	
				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)	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			
	ToI (temperature operating limit)	Tbiv (bivalent temperature)	PERd	%	282.8		
			COPd		2.88		
			Pdh	kW	12.1		
			PERd	%	115.2		
			TOL	°C	-10		
	Rated heat output supplementary capacity	Tbiv (bivalent temperature)	WTOL	°C	35		
COPd				2.97			
Pdh			kW	10.7			
PERd			%	118.8			
Tbiv			°C	-7			
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW	0.4				

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Technical specifications			ETBX16E9W7 + EPRA14DW17	ETBX16E9W7 + EPRA16DW17	ETBX16E9W7 + EPRA18DW17
Space heating 	Cold climate water outlet 35°C	General	Annual energy consumption		7,356
			η_s (Seasonal space heating efficiency)	%	165
			Prated at -22°C	kW	13
			Qhe Annual energy consumption (GCV)	Gj	26
			A Condition (-7°CDB)	COPd	3.50
		B Condition (2°CDB)	Pdh	kW	8.0
			PERd	%	140.0
			Cdh (Degradation heating)		1.0
		C Condition (7°CDB)	COPd		5.07
			Pdh	kW	4.9
			PERd	%	202.8
		D Condition (12°CDB)	Cdh (Degradation heating)		1.0
			COPd		6.10
			Pdh	kW	5.3
		E Condition (17°CDB)	PERd	%	244.0
			Cdh (Degradation heating)		1.0
			COPd		7.03
		F Condition (22°CDB)	Pdh	kW	5.7
			PERd	%	281.2
			COPd		2.16
G Condition (27°CDB)	Pdh	kW	10.1		
	PERd	%	86.4		
	TOL	°C	-22		
H Condition (32°CDB)	WTOL	°C	35		
	COPd		2.62		
	Pdh	kW	10.7		
I Condition (37°CDB)	PERd	%	104.8		
	COPd		2.62		
	Pdh	kW	10.7		
J Condition (42°CDB)	PERd	%	104.8		
	Tbiv	°C	-15		
	Rated heat output supplementary capacity	Psup (at Tdesign -22°C)	kW	2.4	
Warm climate water outlet 35°C	General	Annual energy consumption		2,855	
		η_s (Seasonal space heating efficiency)	%	231	
		Prated at 2°C	kW	13	
		Qhe Annual energy consumption (GCV)	Gj	10	
		B Condition (2°CDB)	Cdh (Degradation heating)		1.0
Space heating 	Warm climate water outlet 35°C	B Condition (2°CDB)	COPd		3.51
			Pdh	kW	10.0
			PERd	%	140.4
		C Condition (7°CDB)	Cdh (Degradation heating)		1.0
			COPd		5.67
			Pdh	kW	8.3
		D Condition (12°CDB)	PERd	%	226.8
			COPd		4.96
			Pdh	kW	9.8
		E Condition (17°CDB)	PERd	%	198.4
Tbiv	°C		5		
Cdh (Degradation heating)			1.0		
F Condition (22°CDB)	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)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |
 Test at Ta DB/WB 7°C/6°C. According to EN 16147.

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Technical specifications				ETSH16P30E7 + EPRA14DW17	ETSH16P50E7 + EPRA14DW17	ETSH16P30E7 + EPRA16DW17	ETSH16P50E7 + EPRA16DW17	ETSH16P30E7 + EPRA18DW17	ETSH16P50E7 + EPRA18DW17	
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 20-125 CHBL RT								
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.9 (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	No							
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)	45.6						
		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	Air to water unit	Rated airflow (outdoor)	m ³ /h	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						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
		Function to fix water heating during off peak hours	No							
	Average climate	AEC (Annual electricity consumption)	kWh	816	1,326	816	1,326	816	1,326	
		COPdhw		2.89	3.03	2.89	3.03	2.89	3.03	
		Heat up time		1h 36min	1h 55min	1h 36min	1h 55min	1h 36min	1h 55min	
		Mixed water at 40°C	l	193.0	245.0	193.0	245.0	193.0	245.0	
		η _{wh} (water heating efficiency)	%	126						
		Qelec (Daily electricity consumption)	kWh	4.032	7.294	4.032	7.294	4.032	7.294	
		Reference hot water temperature	°C	47.0	44.4	47.0	44.4	47.0	44.4	
		Stand-by power input	W	57.2	46.3	57.2	46.3	57.2	46.3	
Domestic hot water heating	Average climate	Water heating energy efficiency class	A+							
	Cold climate	AEC (Annual electricity consumption)	kWh	1,110	1,512	1,110	1,512	1,110	1,512	
		COPdhw		2.16	2.67	2.16	2.67	2.16	2.67	
		Heat up time		1h 30min	1h 55min	1h 30min	1h 55min	1h 30min	1h 55min	
		Mixed water at 40°C	l	159.0	243.0	159.0	243.0	159.0	243.0	
		η _{wh} (water heating efficiency)	%	93	111	93	111	93	111	
		Qelec (Daily electricity consumption)	kWh	5.401	7.150	5.401	7.150	5.401	7.150	
		Reference hot water temperature	°C	45.4	44.3	45.4	44.3	45.4	44.3	
		Stand-by power input	W	62.9	48.4	62.9	48.4	62.9	48.4	
	Warm climate	AEC (Annual electricity consumption)	kWh	689	1,142	689	1,142	689	1,142	
		COPdhw		3.39	3.50	3.39	3.50	3.39	3.50	
		Heat up time		1h 50min	2h 18min	1h 50min	2h 18min	1h 50min	2h 18min	
		Mixed water at 40°C	l	191.0	240.0	191.0	240.0	191.0	240.0	
		η _{wh} (water heating efficiency)	%	149	147	149	147	149	147	
		Qelec (Daily electricity consumption)	kWh	3.436	5.455	3.436	5.455	3.436	5.455	
Reference hot water temperature		°C	46.9	44.3	46.9	44.3	46.9	44.3		
Stand-by power input	W	54.3	46.0	54.3	46.0	54.3	46.0			

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Technical specifications				ETSH16P30E7 + EPRA14DW17	ETSH16P50E7 + EPRA14DW17	ETSH16P30E7 + EPRA16DW17	ETSH16P50E7 + EPRA16DW17	ETSH16P30E7 + EPRA18DW17	ETSH16P50E7 + EPRA18DW17			
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						12.5		
			Qhe Annual energy consumption (GCV)	Gj						26		
			SCOP							3.57		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0	
					PdH						2.43	
					PERd						11.1	
					%						97.2	
			B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0	
					PdH						3.52	
					PERd						6.7	
					%						140.8	
			C Condition (7°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0	
					PdH						4.54	
					PERd						6.5	
					%						181.6	
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0	
					PdH						5.97	
PERd						5.2						
%						238.8						
Space heating 	Average climate water outlet 55°C	General	Tol (temperature operating limit)	°C						2.12		
			Rated heat output supplementary capacity	Psup (at Tdesign -10°C)	kW						0.0	
					COPd						2.12	
					PdH						12.5	
					PERd						84.8	
			Tbiv (bivalent temperature)	Tbiv	°C						-10	
					°C						55	
					kW						0.0	
					°C						0.0	
			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						12.5
Qhe Annual energy consumption (GCV)	Gj						35					
A Condition (-7°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0				
		PdH						2.74				
		PERd						7.5				
		%						109.6				
B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0				
		PdH						3.67				
		PERd						5.8				
		%						146.8				
C Condition (7°CDB/11°CWB)	Cdh (Degradation heating)	COPd						1.0				
		PdH						4.69				
		PERd						5.6				
		%						187.6				
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd						6.12				
		PdH						6.2				
		PERd						244.8				
		%						6.2				
Tol (temperature operating limit)	Tol	°C						1.65				
		°C						10.6				
		°C						66.0				
		°C						-22				
G Condition (-15°CDB/-)	COPd							55				
								55				
								2.17				
								2.17				

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Technical specifications				ETSH16P30E7 + EPRA14DW17	ETSH16P50E7 + EPRA14DW17	ETSH16P30E7 + EPRA16DW17	ETSH16P50E7 + EPRA16DW17	ETSH16P30E7 + EPRA18DW17	ETSH16P50E7 + EPRA18DW17		
Space heating 	Cold climate water outlet 55°C	G Condition	Pdh	kW					10.3		
			PERd	%					86.8		
		(bivalent tempera- ture)	Tbiv	COPd						1.90	
			Pdh	kW						11.0	
			PERd	%						76.0	
			Tbiv	°C						-18	
		Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW						1.9	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh						4,453	
			ηs (Seasonal space heating efficiency)	%						166	
			Prated at 2°C	kW						14.1	
			Qhe Annual energy consumption (GCV)	Gj						16	
			B Condition (2°C- B/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							2.62	
			Pdh	kW						11.4	
			PERd	%						104.8	
		C Condition (7°C- B/6°CWB)	Cdh (Degradation heating)								1.0
			COPd								3.78
			Pdh	kW							9.0
			PERd	%						151.2	
		D Condition (12°C- B/11°CWB)	Cdh (Degradation heating)								1.0
			COPd								5.63
			Pdh	kW							5.9
			PERd	%						225.2	
		Tbiv (bivalent tempera- ture)	COPd								3.43
	Pdh		kW							11.1	
	PERd		%							137.2	
		Tbiv	°C							5	
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							12.5	
		Qhe Annual energy consumption (GCV)	Gj							20	
		SCOP								4.71	
		Seasonal space heating eff. class								A+++	
	A Condition (-7°C- B/-8°CWB)	COPd								2.97	
	Pdh	kW							10.7		
	PERd	%							118.8		

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Technical specifications				ETSH16P30E7 + EPRA14DW17	ETSH16P50E7 + EPRA14DW17	ETSH16P30E7 + EPRA16DW17	ETSH16P50E7 + EPRA16DW17	ETSH16P30E7 + EPRA18DW17	ETSH16P50E7 + EPRA18DW17	
Space heating Average climate water outlet 35°C	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			
	Tbiv (bivalent temperature)	WTOL °C					35			
		COPd					2.97			
		Pdh kW					10.7			
		PERd %					118.8			
	Rated heat output supplementary capacity	Tbiv °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					26.7		
		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				

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Technical specifications				ETSH16P30E7 + EPRA14DW17	ETSH16P50E7 + EPRA14DW17	ETSH16P30E7 + EPRA16DW17	ETSH16P50E7 + EPRA16DW17	ETSH16P30E7 + EPRA18DW17	ETSH16P50E7 + EPRA18DW17		
Space heating 	Cold climate water outlet 35°C	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				
	Rated heat output supplementary capacity	Tbiv °C				-15					
		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				12.5			
				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)	Cdh (Degradation heating)				1.0				
			COPd				5.67				
			Pdh kW				8.3				
		Tbiv (bivalent temperature)	PERd %				226.8				
			COPd				4.96				
Pdh kW						9.8					
D Condition (12°CDB/11°CWB)		PERd %				198.4					
	Tbiv °C				5						
	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 |

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

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

Technical specifications				ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17
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 20-125 CHBL RT					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.9 (2)		25.8 (2)		

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Technical specifications			ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17	
General	Supplier/ Manufacturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark	Daikin Europe N.V.						
	Product description	Air-to-water heat pump		Yes					
		Brine-to-water heat pump		No					
		Heat pump combination heater		Yes					
		Low-temperature heat pump		No					
		Supplementary heater integrated		No					
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)	45.6					
		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	Air to water unit	Rated airflow (outdoor)	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	
		Function to fix water heating during off peak hours	No						
	Average climate	AEC (Annual electricity consumption)	kWh	816	1,326	816	1,326	816	1,326
		COPdhw		2.89	3.03	2.89	3.03	2.89	3.03
		Heat up time		1h 36min	1h 55min	1h 36min	1h 55min	1h 36min	1h 55min
		Mixed water at 40°C	l	193.0	245.0	193.0	245.0	193.0	245.0
		η _{wh} (water heating efficiency)	%	126					
		Qelec (Daily electricity consumption)	kWh	4.032	7.294	4.032	7.294	4.032	7.294
		Reference hot water temperature	°C	47.0	44.4	47.0	44.4	47.0	44.4
		Stand-by power input	W	57.2	46.3	57.2	46.3	57.2	46.3
Domestic hot water heating	Average climate	Water heating energy efficiency class	A+						
	Cold climate	AEC (Annual electricity consumption)	kWh	1,110	1,512	1,110	1,512	1,110	1,512
		COPdhw		2.16	2.67	2.16	2.67	2.16	2.67
		Heat up time		1h 30min	1h 55min	1h 30min	1h 55min	1h 30min	1h 55min
		Mixed water at 40°C	l	159.0	243.0	159.0	243.0	159.0	243.0
		η _{wh} (water heating efficiency)	%	93	111	93	111	93	111
		Qelec (Daily electricity consumption)	kWh	5.401	7.150	5.401	7.150	5.401	7.150
		Reference hot water temperature	°C	45.4	44.3	45.4	44.3	45.4	44.3
		Stand-by power input	W	62.9	48.4	62.9	48.4	62.9	48.4
	Warm climate	AEC (Annual electricity consumption)	kWh	689	1,142	689	1,142	689	1,142
		COPdhw		3.39	3.50	3.39	3.50	3.39	3.50
		Heat up time		1h 50min	2h 18min	1h 50min	2h 18min	1h 50min	2h 18min
		Mixed water at 40°C	l	191.0	240.0	191.0	240.0	191.0	240.0
		η _{wh} (water heating efficiency)	%	149	147	149	147	149	147
Qelec (Daily electricity consumption)		kWh	3.436	5.455	3.436	5.455	3.436	5.455	
Reference hot water temperature	°C	46.9	44.3	46.9	44.3	46.9	44.3		
Stand-by power input	W	54.3	46.0	54.3	46.0	54.3	46.0		

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Technical specifications				ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh				7,236				
		ηs (Seasonal space heating efficiency)	%				140				
		Prated at -10°C	kW				12.5				
		Qhe Annual energy consumption (GCV)	Gj				26				
		SCOP					3.57				
		Seasonal space heating eff. class					A++				
		A Condition (-7°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				2.43				
			Pdh	kW			11.1				
			PERd	%			97.2				
		B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				3.52				
			Pdh	kW			6.7				
			PERd	%			140.8				
		C Condition (7°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				4.54				
			Pdh	kW			6.5				
			PERd	%			181.6				
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				5.97				
Space heating Average climate water outlet 55°C	General	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 supplementary capacity	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				12.5		
				Qhe Annual energy consumption (GCV)	Gj				35		
				A Condition (-7°CDB/11°CWB)	Cdh (Degradation heating)				1.0		
					COPd				2.74		
					Pdh	kW			7.5		
					PERd	%			109.6		
B Condition (2°CDB/11°CWB)	Cdh (Degradation heating)						1.0				
	COPd						3.67				
	Pdh			kW			5.8				
	PERd			%			146.8				
C Condition (7°CDB/11°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)	COPd							1.65			
	Pdh	kW				10.6					
	PERd	%				66.0					
	TOL	°C				-22					
	WTOL	°C				55					
G Condition (-15°CDB/-)	COPd					2.17					

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Technical specifications				ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17	
Space heating 	Cold climate water outlet 55°C	G Condition	Pdh	kW					10.3	
			PERd	%					86.8	
			Tbiv	COPd						1.90
		(bivalent tempera- ture)	Pdh	kW						11.0
			PERd	%						76.0
			Tbiv	°C						-18
			Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)	kW					1.9
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh						4,453
			ηs (Seasonal space heating efficiency)	%						166
			Prated at 2°C	kW						14.1
			Qhe Annual energy consumption (GCV)	Gj						16
		B Condition (2°C CD- B/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							2.62
			Pdh	kW						11.4
			PERd	%						104.8
		C Condition (7°C CD- B/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							3.78
			Pdh	kW						9.0
			PERd	%						151.2
		D Condition (12°C CD- B/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.63
			Pdh	kW						5.9
			PERd	%						225.2
		Tbiv (bivalent tempera- ture)	COPd							3.43
	Pdh		kW						11.1	
	PERd		%						137.2	
	Tbiv		°C						5	
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						12.5	
		Qhe Annual energy consumption (GCV)	Gj						20	
		SCOP							4.71	
	Seasonal space heating eff. class							A+++		
	A Condition (-7°C CD- B/-8°CWB)	COPd							2.97	
	Pdh	kW						10.7		
	PERd	%						118.8		

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Technical specifications				ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17		
Space heating 	Average climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								
			COPd					1.0			
			Pdh kW					4.94			
		PERd %						6.9			
									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			
	Tbiv (bivalent temperature)	WTOL °C						35			
		COPd						2.97			
		Pdh kW						10.7			
	Rated heat output supplementary capacity	PERd %						118.8			
		Tbiv °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					26.7			
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				

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Technical specifications				ETSHB16P30E7 + EPRA14DW17	ETSHB16P50E7 + EPRA14DW17	ETSHB16P30E7 + EPRA16DW17	ETSHB16P50E7 + EPRA16DW17	ETSHB16P30E7 + EPRA18DW17	ETSHB16P50E7 + EPRA18DW17	
Space heating	Cold climate water outlet 35°C	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			
	Rated heat output supplementary capacity	Tbiv °C				-15				
		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				12.5			
			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)	Cdh (Degradation heating)				1.0			
			COPd				5.67			
			Pdh kW				8.3			
Tbiv (bivalent temperature)		PERd %				226.8				
		COPd				4.96				
	Pdh kW				9.8					
D Condition (12°CDB/11°CWB)	PERd %				198.4					
	Tbiv °C				5					
	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 |

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

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

Technical specifications				ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17
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)	
					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 20-125 CHBL RT					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.9 (2)		25.8 (2)		

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Technical specifications			ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17			
General	Supplier/Manufacturer details	Name and address Name or trademark	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V.								
	Product description	Air-to-water heat pump							Yes		
		Brine-to-water heat pump							No		
		Heat pump combination heater							Yes		
		Low-temperature heat pump							No		
		Supplementary heater integrated							No		
		Water-to-water heat pump							No		
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)							45.6	
	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	Air to water unit	Rated airflow (outdoor)	m ³ /h			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			
		Function to fix water heating during off peak hours							No		
	Average climate	AEC (Annual electricity consumption)	kWh	816	1,326	816	1,326	816	1,326		
		COPdhw		2.89	3.03	2.89	3.03	2.89	3.03		
		Heat up time		1h 36min	1h 55min	1h 36min	1h 55min	1h 36min	1h 55min		
		Mixed water at 40°C	l	193.0	245.0	193.0	245.0	193.0	245.0		
		ηwh (water heating efficiency)	%							126	
	Average climate	Qelec (Daily electricity consumption)	kWh	4.032	7.294	4.032	7.294	4.032	7.294		
		Reference hot water temperature	°C	47.0	44.4	47.0	44.4	47.0	44.4		
		Stand-by power input	W	57.2	46.3	57.2	46.3	57.2	46.3		
Water heating energy efficiency class									A+		
Cold climate	AEC (Annual electricity consumption)	kWh	1,110	1,512	1,110	1,512	1,110	1,512			
	COPdhw		2.16	2.67	2.16	2.67	2.16	2.67			
	Heat up time		1h 30min	1h 55min	1h 30min	1h 55min	1h 30min	1h 55min			
	Mixed water at 40°C	l	159.0	243.0	159.0	243.0	159.0	243.0			
	ηwh (water heating efficiency)	%	93	111	93	111	93	111			
	Qelec (Daily electricity consumption)	kWh	5.401	7.150	5.401	7.150	5.401	7.150			
	Reference hot water temperature	°C	45.4	44.3	45.4	44.3	45.4	44.3			
	Stand-by power input	W	62.9	48.4	62.9	48.4	62.9	48.4			
	Warm climate	AEC (Annual electricity consumption)	kWh	689	1,142	689	1,142	689	1,142		
		COPdhw		3.39	3.50	3.39	3.50	3.39	3.50		
Heat up time			1h 50min	2h 18min	1h 50min	2h 18min	1h 50min	2h 18min			
Mixed water at 40°C		l	191.0	240.0	191.0	240.0	191.0	240.0			
ηwh (water heating efficiency)		%	149	147	149	147	149	147			
Qelec (Daily electricity consumption)		kWh	3.436	5.455	3.436	5.455	3.436	5.455			
Reference hot water temperature		°C	46.9	44.3	46.9	44.3	46.9	44.3			
Stand-by power input		W	54.3	46.0	54.3	46.0	54.3	46.0			
Space heating		Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,122
			ηs (Seasonal space heating efficiency)	%						142	
	Prated at -10°C		kW						12.5		
	Qhe Annual energy consumption (GCV)		Gj						26		
	SCOP								3.63		
	Seasonal space heating eff. class								A++		
	A Condition (-7°CDB)		Cdh (Degradation heating)							1.0	
			COPd							2.43	
			Pdh	kW						11.1	
			PERd	%						97.2	
B Condition (2°CDB)	Cdh (Degradation heating)							1.0			
	COPd							3.52			
	Pdh	kW						6.7			
	PERd	%						140.8			
C Condition (7°CDB)	Cdh (Degradation heating)							1.0			
	COPd							4.54			
	Pdh	kW						6.5			

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Technical specifications				ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17												
Space heating Average climate water outlet 55°C	C Condition (7°C-D- B/6°CWB)	PERd	%							181.6											
				D Condition (12°C-D- B/11°CWB)						Cdh (Degradation heating)	1.0										
										COPd	5.97										
										Pdh	5.2										
										PERd	238.8										
				Tol (tem- perature operating limit)						COPd	2.12										
										Pdh	12.5										
										PERd	84.8										
										TOL	-10										
										WTOL	55										
				Rated heat output sup- plementary capacity						Psup (at Tdesign -10°C)	0.0										
				Tbiv (bivalent tempera- ture)						COPd	2.12										
										Pdh	12.5										
										PERd	84.8										
										Tbiv	-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							12.5			
												Qhe Annual energy consumption (GCV)	Gj							35	
														A Condition (-7°C-D- B/-8°CWB)	Cdh (Degradation heating)						
COPd	2.74																				
Pdh	7.5																				
PERd	109.6																				
B Condition (2°C-D- B/1°CWB)	Cdh (Degradation heating)													1.0							
		COPd	3.67																		
		Pdh	5.8																		
		PERd	146.8																		
C Condition (7°C-D- B/6°CWB)	Cdh (Degradation heating)													1.0							
		COPd	4.69																		
		Pdh	5.6																		
		PERd	187.6																		
D Condition (12°C-D- B/11°CWB)	COPd													6.12							
		Pdh	6.2																		
		PERd	244.8																		
		Tol (temperature operating limit)	COPd																	1.65	
Pdh	10.6																				
						PERd	66.0														

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Technical specifications				ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17			
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	TOL	°C					-22			
			WTOL	°C					55			
		G Condition (-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	
		Rated heat output sup- plementary capacity	Tbiv		°C						-18	
			Psup (at Tdesign -22°C)		kW						1.9	
		Warm climate water outlet 55°C	General	Annual energy consumption		kWh					4,316	
				ηs (Seasonal space heating efficiency)		%					172	
				Prated at 2°C		kW						14.1
				Qhe Annual energy consumption (GCV)		Gj						16
			B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)								1.0
COPd										2.62		
Pdh				kW						11.4		
PERd				%						104.8		
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)									1.0		
	COPd									3.78		
	Pdh			kW						9.0		
	PERd			%						151.2		
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)									1.0		
	COPd									5.63		
	Pdh			kW						5.9		
	PERd		%						225.2			
Tbiv (bivalent tempera- ture)	COPd								3.43			
	Pdh		kW						11.1			
	PERd		%						137.2			
	Tbiv		°C						5			
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			
		ηs (Seasonal space heating efficiency)		%					190			
		Prated at -10°C		kW						12.5		
		Qhe Annual energy consumption (GCV)		Gj						19		
		SCOP								4.81		
		Seasonal space heating eff. class								A+++		

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Technical specifications				ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17	
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 (tem- perature operating limit)	COPd					2.88			
		Pdh	kW				12.1			
		PERd	%				115.2			
		TOL	°C				-10			
	Tbiv (bivalent tempera- ture)	WTOL	°C				35			
		COPd					2.97			
		Pdh	kW				10.7			
		PERd	%				118.8			
	Rated heat output sup- plementary capacity	Tbiv	°C				-7			
		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				26.5			
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				ETSX16P30E7 + EPRA14DW17	ETSX16P50E7 + EPRA14DW17	ETSX16P30E7 + EPRA16DW17	ETSX16P50E7 + EPRA16DW17	ETSX16P30E7 + EPRA18DW17	ETSX16P50E7 + EPRA18DW17		
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB)	COPd						6.10		
			Pdh	kW					5.3		
			PERd	%						244.0	
		D Condition (12°CDB)	Cdh (Degradation heating)							1.0	
			COPd							7.03	
			Pdh	kW						5.7	
		Tol (temperature operating limit)	ToL	WTOL	COPd						281.2
					Pdh	kW					2.16
					PERd	%					10.1
		G Condition (-15°CDB)	PERd	WTOL	COPd						86.4
					Pdh	kW					-22
					PERd	%					35
		Tbiv (bivalent temperature)	Tbiv	Tbiv	COPd						2.62
					Pdh	kW					10.7
					PERd	%					104.8
	Rated heat output supplementary capacity	Tbiv	Tbiv	Tbiv	°C					104.8	
				Tbiv	°C					-15	
				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						12.5
				Qhe Annual energy consumption (GCV)	Gj						10
		B Condition (2°CDB)	B/1°CWB	PERd	Cdh (Degradation heating)						1.0
					COPd						3.51
					Pdh	kW					10.0
		C Condition (7°CDB)	B/6°CWB	PERd	Cdh (Degradation heating)						140.4
					COPd						1.0
Pdh					kW					5.67	
Tbiv (bivalent temperature)		Tbiv	Tbiv	PERd	%					8.3	
				COPd						226.8	
				Pdh	kW					4.96	
D Condition (12°CDB)		B/11°CWB	PERd	PERd	%					9.8	
				COPd						198.4	
	Tbiv			°C					5		
D Condition (12°CDB)	B/11°CWB	PERd	Cdh (Degradation heating)						1.0		
			COPd						7.04		
			Pdh	kW					5.7		
Space heating 	Warm climate water outlet	B/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)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

Technical specifications				ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17
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)	
COP	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)		2.80 (3) / 2.93 (4)		3.05 (3) / 3.31 (4)	
								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 20-125 CHBL RT					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.9 (2)			25.8 (2)	

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Technical specifications			ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17	
General	Supplier/Manufacturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark	Daikin Europe N.V.						
	Product description	Air-to-water heat pump		Yes					
		Brine-to-water heat pump		No					
		Heat pump combination heater		Yes					
		Low-temperature heat pump		No					
		Supplementary heater integrated		No					
	LW(A) Sound power level (according to EN14825)	Indoor	dB(A)	45.6					
		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	Air to water unit	Rated airflow (outdoor)	3,918			3,960			
		Other	Capacity control Inverter						
		Pck (Crankcase heater mode)	0.000						
		Poff (Off mode)	0.031						
		Psb (Standby mode)	0.042						
		Pto (Thermostat off)	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
		Function to fix water heating during off peak hours	No						
	Average climate	AEC (Annual electricity consumption)	kWh	816	1,326	816	1,326	816	1,326
		COPdhw		2.89	3.03	2.89	3.03	2.89	3.03
		Heat up time		1h 36min	1h 55min	1h 36min	1h 55min	1h 36min	1h 55min
		Mixed water at 40°C	l	193.0	245.0	193.0	245.0	193.0	245.0
		ηwh (water heating efficiency)	%	126					
	Average climate	Qelec (Daily electricity consumption)	kWh	4.032	7.294	4.032	7.294	4.032	7.294
		Reference hot water temperature	°C	47.0	44.4	47.0	44.4	47.0	44.4
		Stand-by power input	W	57.2	46.3	57.2	46.3	57.2	46.3
Water heating energy efficiency class			A+						
Cold climate	AEC (Annual electricity consumption)	kWh	1,110	1,512	1,110	1,512	1,110	1,512	
	COPdhw		2.16	2.67	2.16	2.67	2.16	2.67	
	Heat up time		1h 30min	1h 55min	1h 30min	1h 55min	1h 30min	1h 55min	
	Mixed water at 40°C	l	159.0	243.0	159.0	243.0	159.0	243.0	
	ηwh (water heating efficiency)	%	93	111	93	111	93	111	
	Qelec (Daily electricity consumption)	kWh	5.401	7.150	5.401	7.150	5.401	7.150	
	Reference hot water temperature	°C	45.4	44.3	45.4	44.3	45.4	44.3	
	Stand-by power input	W	62.9	48.4	62.9	48.4	62.9	48.4	
	Warm climate	AEC (Annual electricity consumption)	kWh	689	1,142	689	1,142	689	1,142
		COPdhw		3.39	3.50	3.39	3.50	3.39	3.50
Heat up time			1h 50min	2h 18min	1h 50min	2h 18min	1h 50min	2h 18min	
Mixed water at 40°C		l	191.0	240.0	191.0	240.0	191.0	240.0	
ηwh (water heating efficiency)		%	149	147	149	147	149	147	
Qelec (Daily electricity consumption)		kWh	3.436	5.455	3.436	5.455	3.436	5.455	
Reference hot water temperature		°C	46.9	44.3	46.9	44.3	46.9	44.3	
Stand-by power input		W	54.3	46.0	54.3	46.0	54.3	46.0	
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh 7,122					
			ηs (Seasonal space heating efficiency)	% 142					
			Prated at -10°C	kW 12.5					
			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	11.1					
			PERd	97.2					
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0						
		COPd	3.52						
		Pdh	6.7						
		PERd	140.8						
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0							
	COPd	4.54							
	Pdh	6.5							

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Technical specifications				ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17	
Space heating 	Average climate water outlet	C Condition (7°CDB/6°CWB)	PERd	%					181.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0	
	55°C	Tol (temperature operating limit)	COPd						5.97	
			Pdh		kW				5.2	
			PERd		%				238.8	
			COPd						2.12	
		Rated heat output supplementary capacity	Pdh		kW				12.5	
			PERd		%				84.8	
			TOL		°C				-10	
		Tbiv (bivalent temperature)	WTOL		°C				55	
			Psup (at Tdesign -10°C)		kW				0.0	
		Cold climate water outlet	General	Tbiv	COPd					2.12
	Pdh				kW				12.5	
	PERd				%				84.8	
	Tbiv				°C				-10	
	Annual energy consumption				kWh				9,589	
	55°C		ηs (Seasonal space heating efficiency)	Prated at -22°C		kW				12.5
				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			
			COPd					1.65		
			Pdh		kW				10.6	
			PERd		%			66.0		

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Technical specifications				ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17	
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 (bivalent temperature)	COPd						1.90		
		Pdh		kW				11.0		
		PERd		%				76.0		
	Rated heat output supplementary capacity	Tbiv		°C				-18		
		Psup (at Tdesign -22°C)		kW				1.9		
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh				4,316		
			ηs (Seasonal space heating efficiency)	%				172		
			Prated at 2°C	kW				14.1		
Qhe Annual energy consumption (GCV)			Gj				16			
B Condition (2°CDB/B/1°CWB)		Cdh (Degradation heating)						1.0		
		COPd						2.62		
		Pdh		kW				11.4		
		PERd		%				104.8		
C Condition (7°CDB/B/6°CWB)		Cdh (Degradation heating)						1.0		
		COPd						3.78		
		Pdh		kW				9.0		
		PERd		%				151.2		
D Condition (12°CDB/B/11°CWB)		Cdh (Degradation heating)						1.0		
	COPd						5.63			
	Pdh		kW				5.9			
	PERd		%				225.2			
Tbiv (bivalent temperature)	COPd						3.43			
	Pdh		kW				11.1			
	PERd		%				137.2			
	Tbiv		°C				5			
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			
		ηs (Seasonal space heating efficiency)	%				190			
		Prated at -10°C	kW				12.5			
		Qhe Annual energy consumption (GCV)	Gj				19			
		SCOP					4.81			
		Seasonal space heating eff. class						A+++		

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Technical specifications				ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17		
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 supplementary capacity	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				7,356		
			ηs (Seasonal space heating efficiency)		%				165		
			Prated at -22°C		kW				13		
		Qhe Annual energy consumption (GCV)		Gj				26.5			
		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				ETSXB16P30E7 + EPRA14DW17	ETSXB16P50E7 + EPRA14DW17	ETSXB16P30E7 + EPRA16DW17	ETSXB16P50E7 + EPRA16DW17	ETSXB16P30E7 + EPRA18DW17	ETSXB16P50E7 + EPRA18DW17	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	COPd				6.10			
			Pdh	kW			5.3			
		PERd	%				244.0			
		D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)					1.0		
			COPd					7.03		
			Pdh	kW				5.7		
		Tol (tem- perature operating limit)	PERd	%				281.2		
			COPd					2.16		
			Pdh	kW				10.1		
		G Condition (-15°CDB/-)	PERd	%				86.4		
	TOL		°C				-22			
	WTOL		°C				35			
	Warm climate water outlet 35°C	General	COPd				2.62			
			Pdh	kW			10.7			
			PERd	%				104.8		
			Tbiv	°C				-15		
		B Condition (2°CDB- B/1°CWB)	Psup (at Tdesign -22°C)		kW			2.4		
			Annual energy consumption		kWh			2,855		
			ηs (Seasonal space heating efficiency)		%			231		
		C Condition (7°CDB- B/6°CWB)	Prated at 2°C		kW			12.5		
Qhe Annual energy consumption (GCV)			Gj			10				
Cdh (Degradation heating)						1.0				
COPd						3.51				
Pdh	kW					10.0				
PERd	%					140.4				
Cdh (Degradation heating)						1.0				
COPd						5.67				
Pdh	kW					8.3				
PERd	%					226.8				
Tbiv (bivalent tempera- ture)	COPd					4.96				
	Pdh	kW				9.8				
	PERd	%				198.4				
	Tbiv	°C				5				
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)					1.0				
	COPd					7.04				
Space heating 	Warm climate water outlet	D Condition (12°CDB- B/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/MB 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

Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17
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 to 50°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 GE0 25-125 130 PWM					
	Nominal ESP Heating unit	kPa		111.2 (5)				97.4 (5)	

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Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17	
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 Daikin Europe N.V.								
Product description	Air-to-water heat pump	Yes								
	Brine-to-water heat pump	No								
	Heat pump combination heater	Yes								
	Low-temperature heat pump	No								
	Supplementary heater integrated	Yes								
	Water-to-water heat pump	No								
LW(A) Sound power level (according to EN14825)	Indoor	dB(A)			44.0					
LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)			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				
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				
		COPdhw				2.51				
		Heat up time				1h 06min				
Domestic hot water heating	Average climate	η _{wh} (water heating efficiency)	%			106				
		Qelec (Daily electricity consumption)	kWh			4.650				
		Reference hot water temperature	°C			52.5				
		Stand-by power input	W			42.9				
		Water heating energy efficiency class			A					
Cold climate	AEC (Annual electricity consumption)	kWh			1,124					
	COPdhw				2.17					
	Heat up time				1h 04min					
	η _{wh} (water heating efficiency)	%			91					
Warm climate	Qelec (Daily electricity consumption)	kWh			5.370					
	Reference hot water temperature	°C			52.5					
	Stand-by power input	W			45.0					
	AEC (Annual electricity consumption)	kWh			876					
	COPdhw				2.76					
	Heat up time				1h 15min					
	η _{wh} (water heating efficiency)	%			117					
	Qelec (Daily electricity consumption)	kWh			4.220					
	Reference hot water temperature	°C			52.5					
	Stand-by power input	W			41.6					

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Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh					7,236			
			ηs (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)	COPd						1.0	
					Pdh	kW					2.43	
					PERd	%					11.1	
					PERd	%					97.2	
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0	
					Pdh	kW					3.52	
					PERd	%					6.7	
					PERd	%					140.8	
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0	
					Pdh	kW					4.54	
					PERd	%					6.5	
					PERd	%					181.6	
			Space heating 	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd					1.0
							Pdh	kW				
PERd	%									5.2		
PERd	%									238.8		
Tol (temperature operating limit)	COPd	Pdh			kW					2.12		
		PERd			%					12.5		
		TOL			°C					84.8		
		WTOL			°C					-10		
Rated heat output supplementary capacity	Psup (at Tdesign -10°C)								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			ηs (Seasonal space heating efficiency)	%					9,658	
					Prated at -22°C	kW					125	
					Qhe Annual energy consumption (GCV)	Gj						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	
					PERd	%					109.6	
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0	
					Pdh	kW					3.67	
					PERd	%					5.8	
					PERd	%					146.8	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0				
		Pdh	kW					4.69				
		PERd	%					5.6				
		PERd	%					187.6				
D Condition (12°CDB/11°CWB)	COPd	Pdh	kW					6.12				
		PERd	%					6.2				
		PERd	%					244.8				
		TOL	°C					-22				

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Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	WTOL °C	55						
		G Condition (-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					
		Rated heat output sup- plementary capacity	Tbiv	°C	-18					
			Psup (at Tdesign -22°C)	kW	1.9					
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,453						
		ηs (Seasonal space heating efficiency)	%	166						
		Prated at 2°C	kW	14.1						
		Qhe Annual energy consumption (GCV)	Gj	16						
	B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)		1.0						
		COPd		2.62						
		Pdh	kW	11.4						
		PERd	%	104.8						
	C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)		1.0						
		COPd		3.78						
		Pdh	kW	9.0						
		PERd	%	151.2						
	D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)		1.0						
		COPd		5.63						
		Pdh	kW	5.9						
		PERd	%	225.2						
Tbiv (bivalent tempera- ture)	COPd		3.43							
	Pdh	kW	11.1							
	PERd	%	137.2							
	Tbiv	°C	5							
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+++							
	A Condition (-7°CDB- B/-8°CWB)	COPd		2.97						

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Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17	
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW						10.7	
		PERd	%						118.8	
	B Condition (2°CDB/1°CWB)	Cd _h (Degradation heating)								1.0
		COP _d								4.94
		Pdh	kW							6.9
	C Condition (7°CDB/6°CWB)	Cd _h (Degradation heating)								197.6
		COP _d								1.0
		Pdh	kW							5.95
	D Condition (12°CDB/11°CWB)	Cd _h (Degradation heating)								6.2
		COP _d								238.0
		Pdh	kW							1.0
	Tol (temperature operating limit)	COP _d								7.07
		Pdh	kW							5.6
		PERd	%							282.8
	Tbiv (bivalent temperature)	COP _d								2.88
		Pdh	kW							12.1
		PERd	%							115.2
	Rated heat output supplementary capacity	TOL		°C						-10
		WTOL		°C						35
		COP _d								2.97
	Cold climate water outlet 35°C	General	Pdh		kW					10.7
			PERd		%					118.8
			Tbiv		°C					
P _{sup} (at T _{design} -10°C)			kW						0.4	
A Condition (-7°CDB/-8°CWB)		Annual energy consumption		kWh						7,425
		η _s (Seasonal space heating efficiency)		%						163
		Prated at -22°C		kW						13
		Q _{he} Annual energy consumption (GCV)		Gj						27
		COP _d								3.50
		Pdh		kW						8.0
B Condition (2°CDB/1°CWB)	PERd		%						140.0	
	Cd _h (Degradation heating)								1.0	
	COP _d								5.07	
C Condition (7°CDB/6°CWB)	Pdh		kW						4.9	
	PERd		%						202.8	
	Cd _h (Degradation heating)								1.0	
COP _d									6.10	

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Technical specifications				ETVH16S18E6V7 + EPRA14DW17	ETVH16S23E6V7 + EPRA14DW17	ETVH16S18E6V7 + EPRA16DW17	ETVH16S23E6V7 + EPRA16DW17	ETVH16S18E6V7 + EPRA18DW17	ETVH16S23E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Pdh	kW					5.3	
			PERd	%					244.0	
		D Condition (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
		G Condition (-15°CDB/-)	COPd							2.62
			Pdh	kW						10.7
	Tbiv (bivalent tempera- ture)	PERd							104.8	
		Tbiv	°C						-15	
		COPd							2.62	
		Pdh	kW						10.7	
	Rated heat output sup- plementary capacity	Tbiv							104.8	
		Psup (at Tdesign -22°C)	kW						2.4	
	Warm climate water outlet 35°C	General	Annual energy consumption							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- 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 tempera- ture)	COPd							4.96		
	Pdh	kW						9.8		
	PERd	%						198.4		
	Tbiv	°C						5		
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)							1.0		
	COPd							7.04		
Space heating 	Warm climate water outlet	D Condition (12°CDB- B/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				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17
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 to 50°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 25-125130 PWM					
	Nominal ESP Heating unit		kPa	111.2 (5)				97.4 (5)	

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Technical specifications				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17	
Water side Heat exchanger	Water flow rate	Heating	Nom.	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									
	Air-to-water heat pump	Yes								
	Brine-to-water heat pump	No								
	Heat pump combination heater	Yes								
	Low-temperature heat pump	No								
	Supplementary heater integrated	Yes								
LW(A) Sound power level (according to EN14825)	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	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	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	
		η _{wh} (water heating efficiency)	%	106	107	106	107	106	107	
Domestic hot water heating	Average climate	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						
Domestic hot water heating	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	
	η _{wh} (water heating efficiency)	%	91							
	Warm climate	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		
Domestic hot water heating	Cold 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	
	η _{wh} (water heating efficiency)	%	117	119	117	119	117	119		
	Warm climate	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				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17		
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/11°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	
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0	
Space heating 	Average climate water outlet 55°C	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 supplementary capacity	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					
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/11°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		
Tol (temperature operating limit)	PERd	%							244.8		
	COPd								1.65		
	Pdh	kW					10.6				
	PERd	%					66.0				
	TOL	°C					-22				
WTOL	°C					55					

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Technical specifications				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17	
Space heating 	Cold climate water outlet 55°C	G Condition (-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
		Rated heat output sup- plementary capacity	Tbiv	°C						-18
			Psup (at Tdesign -22°C)	kW						1.9
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh					
	ηs (Seasonal space heating efficiency)			%						166
	Prated at 2°C			kW						14.1
	Qhe Annual energy consumption (GCV)			Gj						16
	B Condition (2°CDB- B/1°CWB)		Cdh (Degradation heating)							1.0
			COPd							2.62
			Pdh	kW						11.4
	C Condition (7°CDB- B/6°CWB)		PERd	%						104.8
			Cdh (Degradation heating)							1.0
			COPd							3.78
	D Condition (12°CDB- B/11°CWB)	Pdh	kW						9.0	
PERd		%						151.2		
Cdh (Degradation heating)								1.0		
Tbiv (bivalent tempera- ture)	COPd							5.63		
	Pdh	kW						5.9		
	PERd	%						225.2		
	Tbiv	°C						3.43		
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+++		
	A Condition (-7°CDB/-8°CWB)	COPd							2.97	
	Pdh	kW						10.7		

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Technical specifications				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17
Space heating 	Average climate water outlet 35°C	A Condition (-7°C-D B/-8°CWB)	PERd	%					118.8
		B Condition (2°C-D B/1°CWB)	Cdh (Degradation heating)						1.0
		COPd						4.94	
		Pdh		kW				6.9	
		PERd		%				197.6	
		C Condition (7°C-D B/6°CWB)	Cdh (Degradation heating)						1.0
		COPd						5.95	
		Pdh		kW				6.2	
		PERd		%				238.0	
		D Condition (12°C-D B/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 supplementary capacity	Psup (at Tdesign -10°C)		kW				
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
	A Condition (-7°C-D B/-8°CWB)	COPd							3.50
		Pdh			kW				8.0
		PERd			%				140.0
	B Condition (2°C-D B/1°CWB)	Cdh (Degradation heating)							1.0
		COPd							5.07
		Pdh			kW				4.9
		PERd			%				202.8
	C Condition (7°C-D B/6°CWB)	Cdh (Degradation heating)							1.0
		COPd							6.10
Pdh				kW				5.3	

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Technical specifications				ETVH16S18E9W7 + EPRA14DW17	ETVH16S23E9W7 + EPRA14DW17	ETVH16S18E9W7 + EPRA16DW17	ETVH16S23E9W7 + EPRA16DW17	ETVH16S18E9W7 + EPRA18DW17	ETVH16S23E9W7 + EPRA18DW17		
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	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					
		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 supplementary capacity			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							
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)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				ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17	
Heating capacity	Min.	kW	3.70 (1)							
	Nom.	kW	5.90 (2)							
	Max.	kW	9.75 (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)						
		Nom.	kW	1.23 (2)						
		Max.	kW	2.17 (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 to 50°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

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Technical specifications					ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17	
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					Grundfos UPMXL GE025-125130 PWM						
Type					111.2 (7)		97.4 (7)				
Nominal ESP Heating unit					kPa						
Water side Heat exchanger					16.3 (2)		25.8 (2)				
Water flow rate Heating Nom.					l/min						
General					Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
Supplier/ Name and address											
Manufacturer 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 Outdoor					dB(A)		54.0				
(according to 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 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
Domestic hot water heating Average climate					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
					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					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
					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					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
					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

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Technical specifications				ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17			
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	
				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	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0
						COPd						5.97
Pdh	kW									5.2		
PERd	%									238.8		
ToI (temperature operating limit)	COPd										2.12	
	Pdh	kW									12.5	
	PERd	%									84.8	
	TOL	°C									-10	
Rated heat output supplementary capacity	WTOL	°C									55	
	Psup (at Tdesign -10°C)	kW									0.0	
	Tbiv (bivalent temperature)	°C									-10	
	COPd										2.12	
	Pdh	kW									12.5	
	PERd	%									84.8	
Cold climate water outlet 55°C	General	Annual energy consumption				kWh						9,589
		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			
			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			
		ToI (temperature operating limit)	COPd							1.65		
Pdh	kW							10.6				

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Technical specifications					ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd	%						66.0	
			TOL	°C						-22	
			WTOL	°C						55	
		G Condition (-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	
	Rated heat output sup- plementary capacity	Tbiv	°C						-18		
		Psup (at Tdesign -22°C)	kW						1.9		
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh						4,316	
				ηs (Seasonal space heating efficiency)	%						172
				Prated at 2°C	kW						14.1
				Qhe Annual energy consumption (GCV)	Gj						16
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)	COPd							1.0
				Pdh	kW						2.62
PERd				%						11.4	
										104.8	
C Condition (7°CDB- B/6°CWB)		Cdh (Degradation heating)	COPd							1.0	
			Pdh	kW						3.78	
			PERd	%						9.0	
										151.2	
D Condition (12°CDB- B/11°CWB)		Cdh (Degradation heating)	COPd							1.0	
			Pdh	kW						5.63	
			PERd	%						5.9	
										225.2	
Tbiv (bivalent tempera- ture)		COPd								3.43	
			Pdh	kW						11.1	
	PERd		%						137.2		
	Tbiv		°C						5		
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		
			ηs (Seasonal space heating efficiency)	%						190	
			Prated at -10°C	kW						13	
			Qhe Annual energy consumption (GCV)	Gj						19	
			SCOP							4.81	



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Technical specifications				ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17		
Space heating Average climate water outlet 35°C	General	Seasonal space heating eff. class		A+++							
		A Condition	COPd	2.97							
		(-7°CDB/-8°CWB)	Pdh	kW	10.7						
			PERd	%	118.8						
			B Condition Cdh (Degradation heating)		1.0						
		(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)	PERd	%	238.0						
			Cdh (Degradation heating)		1.0						
			COPd		7.07						
		Tol (temperature operating limit)	Pdh	kW	5.6						
			PERd	%	282.8						
			TOL	°C	-10						
		Tbiv (bivalent temperature)	WTOL	°C	35						
			COPd		2.88						
			Pdh	kW	12.1						
		Rated heat output supplementary capacity	PERd	%	115.2						
			Tbiv	°C	-7						
			Psup (at Tdesign -10°C)	kW	0.4						
		Cold climate water outlet 35°C	General	Annual energy consumption		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							

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Technical specifications				ETVX16S18E6V7 + EPRA14DW17	ETVX16S23E6V7 + EPRA14DW17	ETVX16S18E6V7 + EPRA16DW17	ETVX16S23E6V7 + EPRA16DW17	ETVX16S18E6V7 + EPRA18DW17	ETVX16S23E6V7 + EPRA18DW17
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)						1.0
			COPd						6.10
			Pdh kW						5.3
			PERd %						244.0
		D Condition (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 Condition (-15°CDB/-)	COPd						2.62	
		Pdh kW						10.7	
		PERd %						104.8	
		Tbiv COPd						2.62	
	Tbiv (bivalent tempera- ture)	Pdh kW						10.7	
		PERd %						104.8	
		Tbiv °C						-15	
	Rated heat output sup- plementary capacity	Psup (at Tdesign -22°C)						2.4	
	Warm climate water outlet 35°C	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 tempera- ture)	COPd						4.96		
	Pdh kW						9.8		
	PERd %						198.4		
	Tbiv °C						5		
Space heating 	Warm climate water outlet 35°C	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				ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17	
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)		
		Domestic hot water from 10°C to 50°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)		

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Technical specifications					ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM								
	Nominal ESP Heating unit	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						
		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 (according to EN14825)	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	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	
Domestic hot water heating	Average climate	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	
		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	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	
		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	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		
	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		


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Technical specifications				ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17			
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
				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
			Space heating 	Average climate water outlet 55°C	C Condition (7°CDB-/6°CWB)	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	
	PERd	%									238.8	
ToI (temperature operating limit)	COPd											2.12
	Pdh	kW										12.5
	PERd	%										84.8
	TOL	°C										-10
Rated heat output supplementary capacity	WTOL	°C										55
	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						9,589
		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		
			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				
ToI (temperature operating limit)	COPd								1.65			
	Pdh	kW							10.6			

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Technical specifications				ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17		
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	PERd TOL WTOL	% °C °C					66.0 -22 55		
		G Condition (-15°CDB/-)	COPd Pdh PERd							2.17 10.3 86.8	
			Tbiv (bivalent tempera- ture)	COPd Pdh PERd Tbiv							1.90 11.0 76.0 -18
	Rated heat output sup- plementary capacity			Psup (at Tdesign -22°C)	kW					1.9	
	Warm climate water outlet 55°C	General		Annual energy consumption	kWh						4,316
			ηs (Seasonal space heating efficiency)	%						172	
			Prated at 2°C	kW						14.1	
			Qhe Annual energy consumption (GCV)	Gj						16	
		B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)							1.0	
			COPd Pdh PERd							2.62 11.4 104.8	
			C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)							1.0
				COPd Pdh PERd							3.78 9.0 151.2
		D Condition (12°CDB- B/11°CWB)		Cdh (Degradation heating)							1.0
				COPd Pdh PERd							5.63 5.9 225.2
	Tbiv (bivalent tempera- ture)		COPd Pdh PERd Tbiv							3.43 11.1 137.2 5	
			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
ηs (Seasonal space heating efficiency)				%						190	
Prated at -10°C	kW								13		
Qhe Annual energy consumption (GCV)	Gj								19		
SCOP									4.81		

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Technical specifications				ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17		
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++							
		A Condition	COPd	2.97							
		B/-8°CWB)	Pdh	kW	10.7						
			PERd	%	118.8						
			B Condition (2°C- B/1°CWB)	Cdh (Degradation heating)	1.0						
		B/1°CWB)	COPd	4.94							
			Pdh	kW	6.9						
			PERd	%	197.6						
		C Condition (7°C- B/6°CWB)	Cdh (Degradation heating)	1.0							
			COPd	5.95							
			Pdh	kW	6.2						
		D Condition (12°C- B/11°CWB)	PERd	%	238.0						
			Cdh (Degradation heating)	1.0							
			COPd	7.07							
		Tol (temperature operating limit)	Pdh	kW	5.6						
			PERd	%	282.8						
			TOL	°C	-10						
		Tbiv (bivalent temperature)	WTOL	°C	35						
			COPd	2.88							
			Pdh	kW	12.1						
		Rated heat output supplementary capacity	PERd	%	115.2						
			Tbiv	°C	-7						
			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°C- B/-8°CWB)	COPd			3.50							
B Condition (2°C- B/1°CWB)	Pdh		kW	8.0							
	PERd		%	140.0							
	Cdh (Degradation heating)		1.0								
B Condition (2°C- B/1°CWB)	COPd		5.07								
	Pdh		kW	4.9							
	PERd		%	202.8							

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Technical specifications				ETVX16S18E9W7 + EPRA14DW17	ETVX16S23E9W7 + EPRA14DW17	ETVX16S18E9W7 + EPRA16DW17	ETVX16S23E9W7 + EPRA16DW17	ETVX16S18E9W7 + EPRA18DW17	ETVX16S23E9W7 + EPRA18DW17	
Space heating	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)						1.0	
			COPd						6.10	
			Pdh kW						5.3	
			PERd %						244.0	
		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 °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 supplementary capacity	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	
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		
	Tbiv °C							5		
Space heating	Warm climate water outlet 35°C	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				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17
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 to 50°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						
Pump Additional Zone	Nominal ESP Heating unit		kPa	97.6 (5)			84.1 (5)		

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Technical specifications				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17	
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 (according to EN14825)	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)		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	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	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
		η_{wh} (water heating efficiency)		%	91					
		Qelec (Daily electricity consumption)		kWh	5.370	8.720	5.370	8.720	5.370	8.720
Warm climate	Reference hot water temperature		°C	52.5						
	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	
	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		

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Technical specifications				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17				
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh					7,236				
			ηs (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)	COPd						1.0		
					Pdh	kW					2.43		
					PERd	%					11.1		
					PERd	%					97.2		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0		
					Pdh	kW					3.52		
					PERd	%					6.7		
					PERd	%					140.8		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0		
					Pdh	kW					4.54		
					PERd	%					6.5		
					PERd	%					181.6		
			Space heating 	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd					1.0	
							Pdh	kW					5.97
PERd	%									5.2			
PERd	%									238.8			
Tol (temperature operating limit)	COPd	Pdh			kW					2.12			
		PERd			%					12.5			
		TOL			°C					84.8			
		WTOL			°C					-10			
		WTOL			°C					55			
		WTOL			°C					-10			
Rated heat output supplementary capacity	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			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		
			PERd	%							109.6		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0		
					Pdh	kW					3.67		
					PERd	%					5.8		
					PERd	%					146.8		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0		
					Pdh	kW					4.69		
					PERd	%					5.6		
					PERd	%					187.6		
			D Condition (12°CDB/11°CWB)	COPd	Pdh	kW					6.12		
					PERd	%					6.2		
					PERd	%					244.8		
					TOL	°C					-22		
Tol (temperature operating limit)	COPd	Pdh	kW					1.65					
		PERd	%					10.6					
		PERd	%					66.0					
		TOL	°C					-22					

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Technical specifications				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	WTOL °C	55						
		G Condition (-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					
		Rated heat output sup- plementary capacity	Tbiv	°C	-18					
			Psup (at Tdesign -22°C)	kW	1.9					
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,453				
ηs (Seasonal space heating efficiency)	%			166						
Prated at 2°C	kW			14.1						
Qhe Annual energy consumption (GCV)	Gj			16						
B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1.0						
	COPd			2.62						
	Pdh		kW	11.4						
	PERd		%	104.8						
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0						
	COPd			3.78						
	Pdh		kW	9.0						
	PERd		%	151.2						
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0						
	COPd			5.63						
	Pdh		kW	5.9						
	PERd		%	225.2						
Tbiv (bivalent tempera- ture)	COPd		3.43							
	Pdh	kW	11.1							
	PERd	%	137.2							
	Tbiv	°C	5							
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+++							
	A Condition (-7°CDB- B/-8°CWB)	COPd		2.97						

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Technical specifications				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17	
Space heating Cold climate water outlet 35°C	Average climate	A Condition (-7°C- B/-8°CWB)	Pdh	kW				10.7		
			PERd	%				118.8		
	35°C	B Condition (2°C- B/1°CWB)	Cdh (Degradation heating)						1.0	
			COPd					4.94		
			Pdh	kW				6.9		
			PERd	%				197.6		
	C Condition (7°C- B/6°CWB)	Cdh (Degradation heating)						1.0		
		COPd					5.95			
		Pdh	kW				6.2			
		PERd	%				238.0			
	D Condition (12°C- B/11°CWB)	Cdh (Degradation heating)						1.0		
		COPd					7.07			
		Pdh	kW				5.6			
		PERd	%				282.8			
	Tol (tem- perature operating limit)	COPd						2.88		
		Pdh	kW				12.1			
		PERd	%				115.2			
		TOL	°C				-10			
	Tbiv (bivalent tempera- ture)	WTOL						35		
		COPd					2.97			
		Pdh	kW				10.7			
		PERd	%				118.8			
	Rated heat output sup- plementary capacity	Tbiv						-7		
		Psup (at Tdesign -10°C)	kW				0.4			
	Cold climate water outlet 35°C	General	Annual energy consumption						7,425	
			ηs (Seasonal space heating efficiency)						163	
			Prated at -22°C						13	
Qhe Annual energy consumption (GCV)						27				
A Condition (-7°C- B/-8°CWB)		COPd						3.50		
		Pdh	kW				8.0			
		PERd	%				140.0			
B Condition (2°C- B/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		
COPd						6.10				

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Technical specifications				ETVZ16S18E6V7 + EPRA14DW17	ETVZ16S23E6V7 + EPRA14DW17	ETVZ16S18E6V7 + EPRA16DW17	ETVZ16S23E6V7 + EPRA16DW17	ETVZ16S18E6V7 + EPRA18DW17	ETVZ16S23E6V7 + EPRA18DW17	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Pdh	kW				5.3		
			PERd	%			244.0			
		D Condition (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				
		G Condition (-15°CDB/-)	COPd			2.62				
			Pdh	kW		10.7				
	Tbiv (bivalent tempera- ture)	PERd			104.8					
		Tbiv	°C		-15					
	Rated heat output sup- plementary capacity	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- 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 tempera- ture)	COPd			4.96						
	Pdh	kW		9.8						
	PERd	%		198.4						
	Tbiv	°C		5						
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0						
	COPd			7.04						
Space heating 	Warm climate water outlet	D Condition (12°CDB- B/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				ETVZ16S18E9W7 + EPRA14DW17	ETVZ16S23E9W7 + EPRA14DW17	ETVZ16S18E9W7 + EPRA16DW17	ETVZ16S23E9W7 + EPRA16DW17	ETVZ16S18E9W7 + EPRA18DW17	ETVZ16S23E9W7 + EPRA18DW17
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 to 50°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						
Pump Additional Zone	Nominal ESP Heating unit		kPa	97.6 (5)				84.1 (5)	

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Technical specifications				ETVZ16S18E9W7 + EPRA14DW7	ETVZ16S23E9W7 + EPRA14DW7	ETVZ16S18E9W7 + EPRA16DW7	ETVZ16S23E9W7 + EPRA16DW7	ETVZ16S18E9W7 + EPRA18DW7	ETVZ16S23E9W7 + EPRA18DW7		
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 (according to EN14825)	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		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	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	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	
		η_{wh} (water heating efficiency)		%	91						
		Qelec (Daily electricity consumption)		kWh	5.370	8.720	5.370	8.720	5.370	8.720	
Warm climate	Reference hot water temperature		°C	52.5							
	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		
	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			


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Technical specifications				ETVZ16S18E9W7 + EPRA14DW17	ETVZ16S23E9W7 + EPRA14DW17	ETVZ16S18E9W7 + EPRA16DW17	ETVZ16S23E9W7 + EPRA16DW17	ETVZ16S18E9W7 + EPRA18DW17	ETVZ16S23E9W7 + EPRA18DW17			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh					7,236			
			ηs (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)	COPd						1.0	
					Pdh	kW					2.43	
					PERd	%					11.1	
					PERd	%					97.2	
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0	
					Pdh	kW					3.52	
					PERd	%					6.7	
					PERd	%					140.8	
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0	
					Pdh	kW					4.54	
					PERd	%					6.5	
					PERd	%					181.6	
			Space heating 	Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd					1.0
							Pdh	kW				
PERd	%									5.2		
PERd	%									238.8		
Tol (temperature operating limit)	COPd	Pdh			kW					2.12		
		PERd			%					12.5		
		TOL			°C					84.8		
		WTOL			°C					-10		
		Rated heat output supplementary capacity			Psup (at Tdesign -10°C)	kW					0.0	
		Tbiv (bivalent temperature)			COPd	Pdh	kW					2.12
PERd	%									12.5		
Tbiv	°C									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
			PERd	%						109.6		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd						1.0		
				Pdh	kW					3.67		
				PERd	%					5.8		
				PERd	%					146.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd						1.0		
				Pdh	kW					4.69		
				PERd	%					5.6		
				PERd	%					187.6		
		D Condition (12°CDB/11°CWB)	COPd	Pdh	kW					6.12		
				PERd	%					6.2		
				PERd	%					244.8		
				Tol (temperature operating limit)	COPd						1.65	
Tol (temperature operating limit)	Pdh	PERd	%					10.6				
		TOL	°C					66.0				
		TOL	°C					-22				


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Technical specifications				ETVZ16S18E9W7 + EPRA14DW17	ETVZ16S23E9W7 + EPRA14DW17	ETVZ16S18E9W7 + EPRA16DW17	ETVZ16S23E9W7 + EPRA16DW17	ETVZ16S18E9W7 + EPRA18DW17	ETVZ16S23E9W7 + EPRA18DW17		
Space heating 	Cold climate water outlet 55°C	Tol (tem- perature operating limit)	WTOL °C	55							
		G Condition (-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						
		Rated heat output sup- plementary capacity	Tbiv	°C	-18						
			Psup (at Tdesign -22°C)	kW	1.9						
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh	4,453					
				ηs (Seasonal space heating efficiency)	%	166					
				Prated at 2°C	kW	14.1					
Qhe Annual energy consumption (GCV)	Gj			16							
B Condition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1.0							
	COPd			2.62							
	Pdh		kW	11.4							
	PERd		%	104.8							
C Condition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0							
	COPd			3.78							
	Pdh		kW	9.0							
	PERd		%	151.2							
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0							
	COPd			5.63							
	Pdh		kW	5.9							
	PERd		%	225.2							
Tbiv (bivalent tempera- ture)	COPd			3.43							
	Pdh		kW	11.1							
	PERd		%	137.2							
	Tbiv	°C	5								
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+++								
	A Condition (-7°CDB- B/-8°CWB)	COPd		2.97							

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Technical specifications				ETVZ16S18E9W7 + EPRA14DW17	ETVZ16S23E9W7 + EPRA14DW17	ETVZ16S18E9W7 + EPRA16DW17	ETVZ16S23E9W7 + EPRA16DW17	ETVZ16S18E9W7 + EPRA18DW17	ETVZ16S23E9W7 + EPRA18DW17	
Space heating 	Average climate	A Condition (-7°CDB/8°CWB)	Pdh	kW					10.7	
			PERd	%					118.8	
	35°C water outlet	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)							1.0
			COPd							5.95
		Pdh	kW					6.2		
		PERd	%					238.0		
		D Condition (12°CDB/11°CWB)							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	
	Tbiv (bivalent temperature)	WTOL							35	
		COPd							2.97	
		Pdh	kW						10.7	
		PERd	%						118.8	
	Rated heat output supplementary capacity	Tbiv							-7	
		Psup (at Tdesign -10°C)							0.4	
Cold climate water outlet 35°C	General	Annual energy consumption							7,425	
		ηs (Seasonal space heating efficiency)							163	
		Prated at -22°C							13	
		Qhe Annual energy consumption (GCV)							27	
	A Condition (-7°CDB/8°CWB)	COPd							3.50	
		Pdh	kW						8.0	
		PERd	%						140.0	
		B Condition (2°CDB/1°CWB)							1.0	
		COPd							5.07	
		Pdh	kW						4.9	
	C Condition (7°CDB/6°CWB)	PERd							202.8	
		CdH (Degradation heating)							1.0	
COPd							6.10			

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Technical specifications				ETVZ16S18E9W7 + EPRA14DW17	ETVZ16S23E9W7 + EPRA14DW17	ETVZ16S18E9W7 + EPRA16DW17	ETVZ16S23E9W7 + EPRA16DW17	ETVZ16S18E9W7 + EPRA18DW17	ETVZ16S23E9W7 + EPRA18DW17	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB- B/6°CWB)	Pdh	kW					5.3	
			PERd	%					244.0	
		D Condition (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							35
			COPd							2.62
	G Condition (-15°CDB/-)	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 sup- plementary capacity	Psup (at Tdesign -22°C)							2.4	
	Warm climate water outlet 35°C	General	Annual energy consumption							2,992
			ηs (Seasonal space heating efficiency)							220
			Prated at 2°C							13
			Qhe Annual energy consumption (GCV)							11
		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 tempera- ture)	COPd							4.96		
	Pdh	kW						9.8		
	PERd							198.4		
	Tbiv	°C						5		
D Condition (12°CDB- B/11°CWB)	Cdh (Degradation heating)							1.0		
	COPd							7.04		
Space heating 	Warm climate water outlet	D Condition (12°CDB- B/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				EPRA14DW17	EPRA16DW17	EPRA18DW17
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			

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Technical Specifications					EPRA14DW17	EPRA16DW17	EPRA18DW17	
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			
		P _s *V	Bar*l		213			
Piping connections	Water inlet heat exchanger diameter			inch	G1" (male)			
	Water outlet heat exchanger diameter			inch	G1" (male)			
Sound power level	Heating	Nom.	dBA		56.0 (1)		59.0 (1)	
	Cooling	Nom.	dBA			65.0 (2)		
Sound pressure level	Heating	Nom.	dBA		43.0 (3)		48.0 (3)	
	Cooling	Nom.	dBA			52.0 (4)		
		Night quiet mode	Heating	dBA			42.0 (3)	
		Cooling	dBA			44.0 (4)		
Refrigerant	Type				R-32			
	GWP				675.0			
	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			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

2 - 1 Specifications

2

Electrical Specifications			EPRA14DW17	EPRA16DW17	EPRA18DW17	
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			
	Max.	%	10			
Current	Minimum Ssc value	kVa	Equipment complying with EN / IEC 61000-3-2			
	Recommended fuses	A	16			
	Inverter modulation	Min.	%	40 (5)	39 (5)	37 (5)
		Remark		See installation manual indoor unit		
Wiring connections	For power supply	Remark	See installation manual indoor unit			
	For connection with indoor	Remark	See installation manual indoor unit			

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

(2)Condition 2: cooling Ta 35°C - LWE 7°C (DT = 5°C); heating Ta DB/WB 7°C/6°C - LWC 45°C (DT = 5°C) |

(3)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 |

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

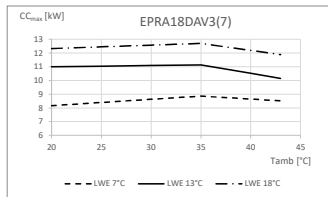
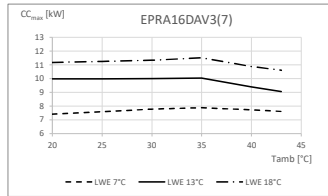
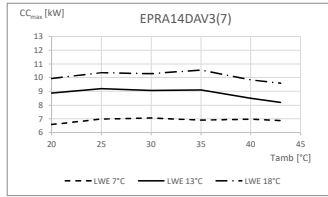
(5)Percentage of heating capacity at Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

3 Capacity graphs

3 - 1 Cooling Capacity Graphs

EPRA14-18DV7 EPRA14-18DW7

Maximum cooling capacity

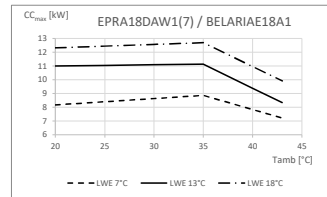
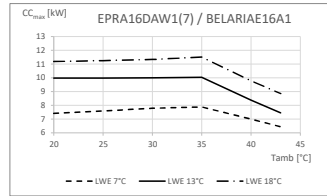
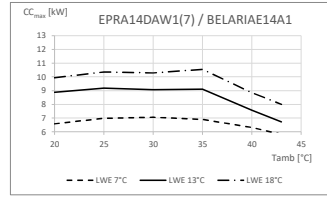


Symbols
 CC_{max} Cooling capacity at maximum operating frequency, measured according to EN 14511.
 LWE Leaving water evaporator temperature [°C]
 Tamb Ambient temperature [°C DB]

Conditions
Cooling capacity
 Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3°-8°C.

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

Maximum cooling capacity



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

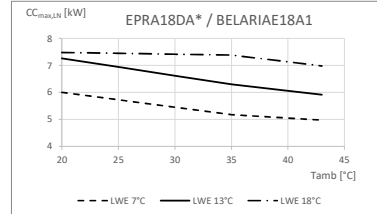
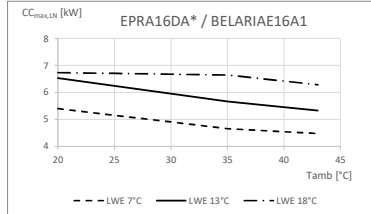
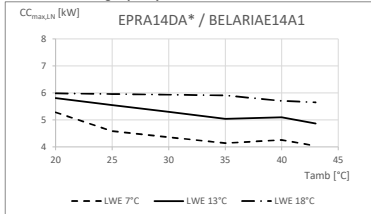
Conditions
Cooling capacity
 Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3°-8°C.

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

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EPRA14-18DV7 EPRA14-18DW7

Maximum cooling capacity



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

Conditions
Cooling capacity
 Capacity according to standard EN 14511 and valid for chilled water range ΔT = 3°-8°C.

Notes
 The capacity and power input is valid for -V3- models at -230 V and for -W1- models at -400 V.
 Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)
 Low noise level -2.

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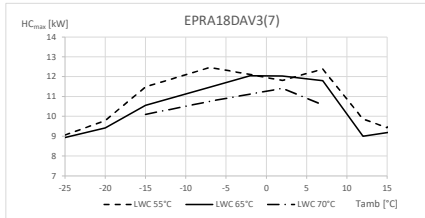
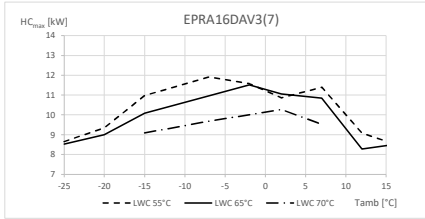
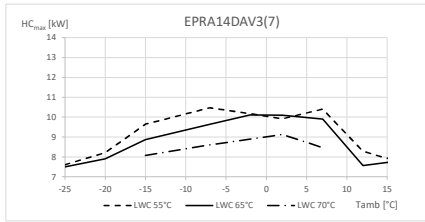
3 Capacity graphs

3 - 2 Heating Capacity Graphs

3

EPRA14-18DV7 / EPRA14-18DW7

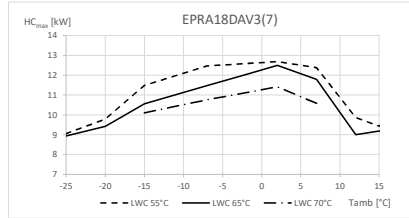
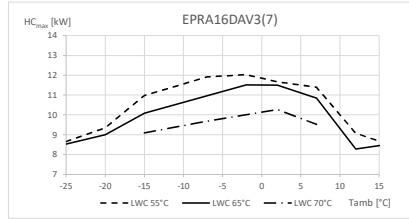
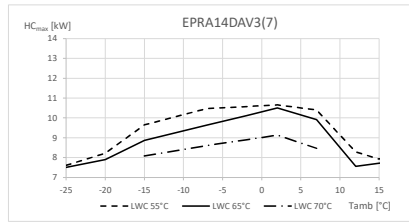
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

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

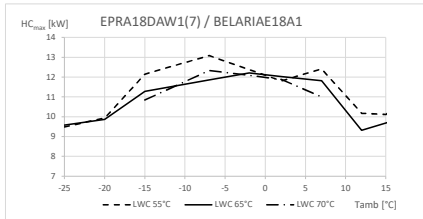
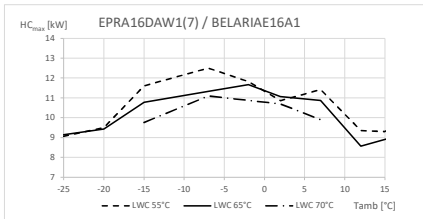
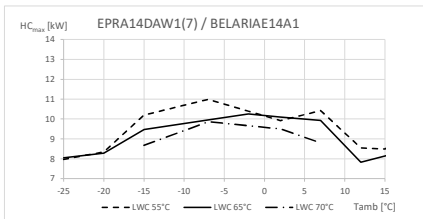
Notes

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

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EPRA14-18DV7 / EPRA14-18DW7

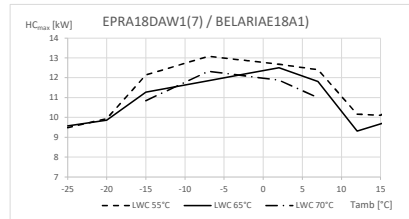
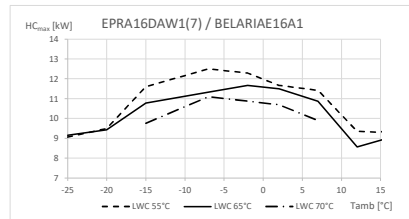
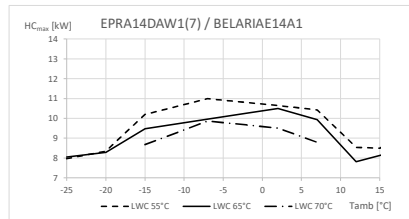
Maximum heating capacity - integrated value



Symbols

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

Maximum heating capacity - peak values



Conditions

Heating capacity

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

Notes

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

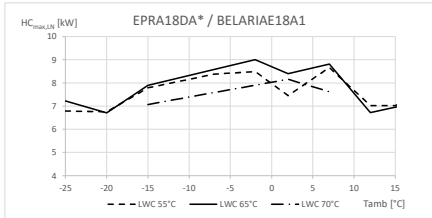
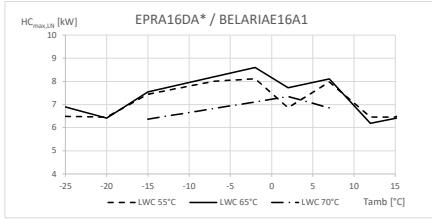
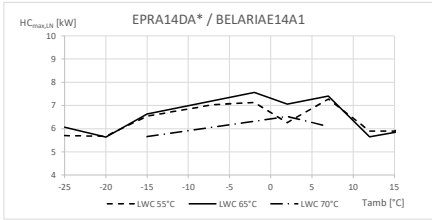
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3 Capacity graphs

3 - 2 Heating Capacity Graphs

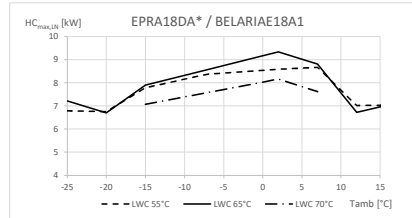
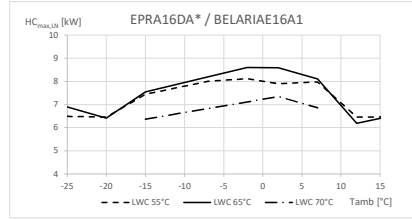
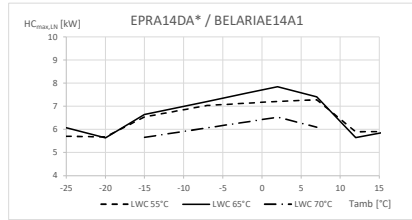
EPRA14-18DV7 / EPRA14-18DW7

Maximum heating capacity - integrated value



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

Maximum heating capacity - peak values



Conditions
Heating capacity
 Capacity according to standard EN 14511 and valid for heated water range $\Delta T = 3^{\circ}\text{C}-8^{\circ}\text{C}$.
Notes
 The capacity and power input is valid for -V3- models at -230-V and for -W1- models at -400-V.
 Full load (maximum fan rps and maximum compressor rps for the dedicated low noise mode)
 Low noise level -2.

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4 Capacity tables

4 - 1 Certification Programs

EPRA14-18DV7 / EPRA14-18DW7

Rated data for certification programmes - heating mode

Tamb [°C]	EWC [°C]	LWC [°C]	EPRA14DAV3(7)		EPRA16DAV3(7)		EPRA18DAV3(7)		EPRA14DAW1(7)		EPRA16DAW1(7)		EPRA18DAW1(7)		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	5,90	4,79	9,00	5,00	9,00	5,00	Keymark, EHFA
7/6	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	EHFA
-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, EHFA
-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	GET

Rated data for certification programmes - cooling mode

Tamb [°C]	EWE [°C]	LWE [°C]	EPRA14DAV3(7)		EPRA16DAV3(7)		EPRA18DAV3(7)		EPRA14DAW1(7)		EPRA16DAW1(7)		EPRA18DAW1(7)		Used for:
			CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	
35	13	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

Seasonal data - cooling

Pdes [kW]	SEER [-]	IPLV [%]	QCE [kWh/annum]	LWE 7°C										
				EPRA14DAV3(7)	EPRA16DAV3(7)	EPRA18DAV3(7)	EPRA14DAW1(7)	EPRA16DAW1(7)	EPRA18DAW1(7)					
6,9	3,99	157	1038	7,9	4,08	4,17	164	8,8	3,87	3,98	4,07	156	160	196

Rated data for certification programmes - domestic hot water performance

Indoor unit	ETV1062B2E1A*		ETV1062B2E1A*		ETV0909B10P9DA		ETV0909B10P9DA		ETV0909B10P9DA		ETV0909B10P9DA*		ETV0909B10P9DA*		Used for:
	EPRA14DAV3(7)	EPRA16DAV3(7)	EPRA18DAV3(7)	EPRA14DAW1(7)	EPRA16DAW1(7)	EPRA18DAW1(7)	EPRA14DAV3(7)	EPRA16DAV3(7)	EPRA18DAV3(7)	EPRA14DAW1(7)	EPRA16DAW1(7)	EPRA18DAW1(7)	EPRA14DAW1(7)	EPRA16DAW1(7)	
Application	Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Keymark
Domestic hot water tank volume [l]	180		230		294		477		294		477		477		
Tapping pattern	L		XL		L		XL		L		XL		XL		
Heat-up time (h:mm:ss)	01:06:36		01:19:36		01:25:00		01:41:00		02:18:00		01:46:00		02:11:00		
Φ _{in} [°C]	52,5		52,5		47,0		47,0		47,0		48,0		47,0		
P _{in} [W]	34,2		42,9		49,2		58,5		46,0		51,0		57,1		
V _{in} [l]	240,0		197		298		149		237,2		215,7		211,0		
P _{in} [%]	109,5		105,7		108,3		106,6		101		111		115		
COP _{Dom} [l]	2,62		2,51		2,61		2,55		2,38		2,67		2,75		
Φ _{in} [°C]	52,5		52,5		47,0		47,0		47,0		48,0		47,0		
P _{in} [W]	34,2		42,9		49,2		58,5		46,0		51,0		57,1		
V _{in} [l]	240,0		197		298		149		237,2		215,7		211,0		
P _{in} [%]	109,5		105,7		108,3		106,6		101		111		115		
COP _{Dom} [l]	2,62		2,51		2,61		2,55		2,38		2,67		2,75		

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]
- Φ_{in} Reference Domestic hot water temperature [°C]
- P_{in} Standby power input
- V_{in} Equivalent domestic hot water volume [l]
- η_{in} Efficiency [%]
- COP_{Dom} Domestic hot water COP

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

Condition	Tamb [°C]	LWC [°C]	FLR [kg]	EPRA14DAV3(7)		EPRA16DAV3(7)		EPRA18DAV3(7)		EPRA14DAW1(7)		EPRA16DAW1(7)		EPRA18DAW1(7)	
				HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP	HC [kW]	COP
A	7/6	34	100	10,43	3,10	11,48	3,10	12,35	3,10	10,26	3,00	11,38	3,00	12,28	3,00
B	12/1	30	100	10,07	3,76	8,80	3,76	10,05	3,76	8,79	3,56	10,05	3,56	10,05	3,56
C	7/6	27	100	9,98	5,84	10,84	5,83	11,82	5,84	9,95	5,47	10,66	5,46	11,84	5,47
D	12/1	24	100	11,84	9,05	12,61	8,95	11,88	8,99	11,84	9,05	12,61	8,95	11,88	8,99
A	-7/-8	32	100	10,43	2,36	11,68	2,35	12,43	2,36	10,89	2,42	12,19	2,41	12,96	2,42
B	2/1	40	100	8,35	2,97	8,95	2,98	9,95	2,97	8,79	2,94	9,41	2,94	10,46	2,94
C	7/6	36	100	10,18	4,29	10,91	4,27	11,13	4,25	9,78	4,18	10,48	4,28	11,64	4,28
D	12/1	30	100	9,29	6,19	9,95	6,19	11,08	6,19	9,49	6,17	10,17	6,40	11,10	6,18

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

Condition	Tamb [°C]	LWE [°C]	FLR [kg]	EPRA14DAV3(7)		EPRA16DAV3(7)		EPRA18DAV3(7)		EPRA14DAW1(7)		EPRA16DAW1(7)		EPRA18DAW1(7)	
				CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER	CC [kW]	EER
A	35	18	100	10,55	4,13	11,51	4,11	12,46	4,09	10,55	4,13	11,51	4,11	12,46	4,09
B	30	18	100	6,62	5,15	7,29	5,15	8,09	5,15	6,62	5,15	7,29	5,15	8,09	5,15
C	30	18	100	4,48	7,61	4,88	7,61	5,40	7,71	4,48	7,61	4,48	7,61	5,40	7,71
D	30	18	100	3,27	9,74	3,27	9,74	3,27	9,74	3,27	9,74	3,27	9,74	3,27	9,74
A	35	7	100	5,90	2,68	7,88	2,68	8,86	2,68	5,90	2,68	7,88	2,68	8,86	2,68
B	30	7	100	4,94	3,47	5,44	3,47	6,04	3,47	4,94	3,47	5,44	3,47	6,04	3,47
C	30	7	100	4,30	4,41	4,31	4,41	4,31	4,41	4,31	4,41	4,31	4,41	4,31	4,41
D	30	7	100	3,78	4,92	3,78	4,92	3,78	4,92	3,78	4,92	3,78	4,92	3,78	4,92

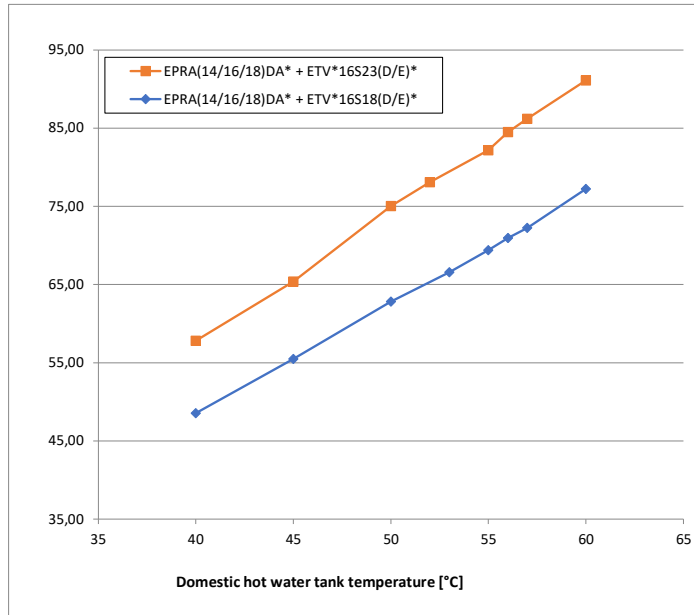
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4 Capacity tables

4 - 2 Domestic Hot Water performance

EPRA14-18DV7
EPRA14-18DW7

Heat-up times



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

Notes

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

See the operation range for maximum domestic hot water tank temperature during heat pump only operation.

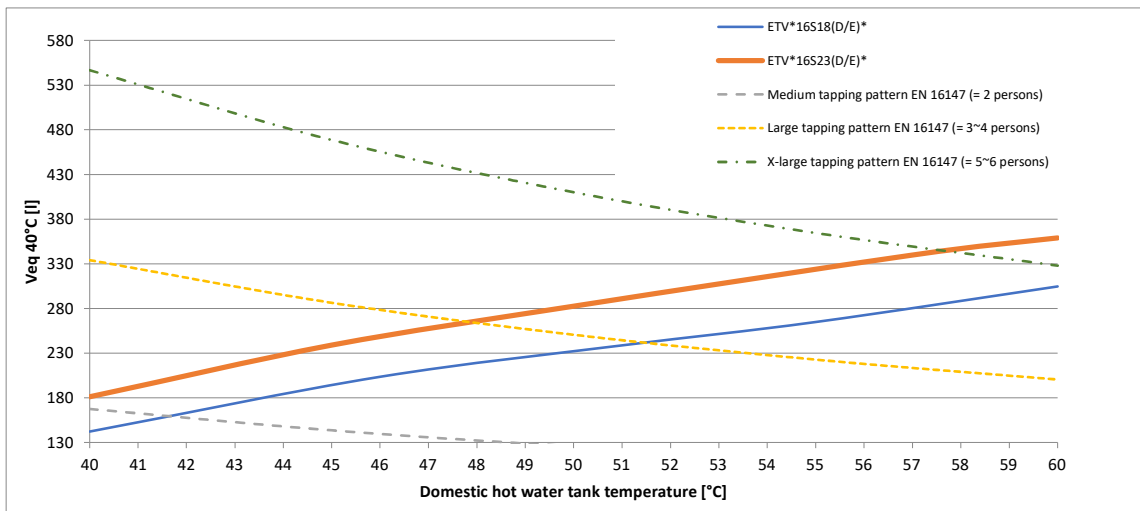
4D126944B

EPRA14-18DV7 / EPRA14-18DW7

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

(1) According to EN16147.

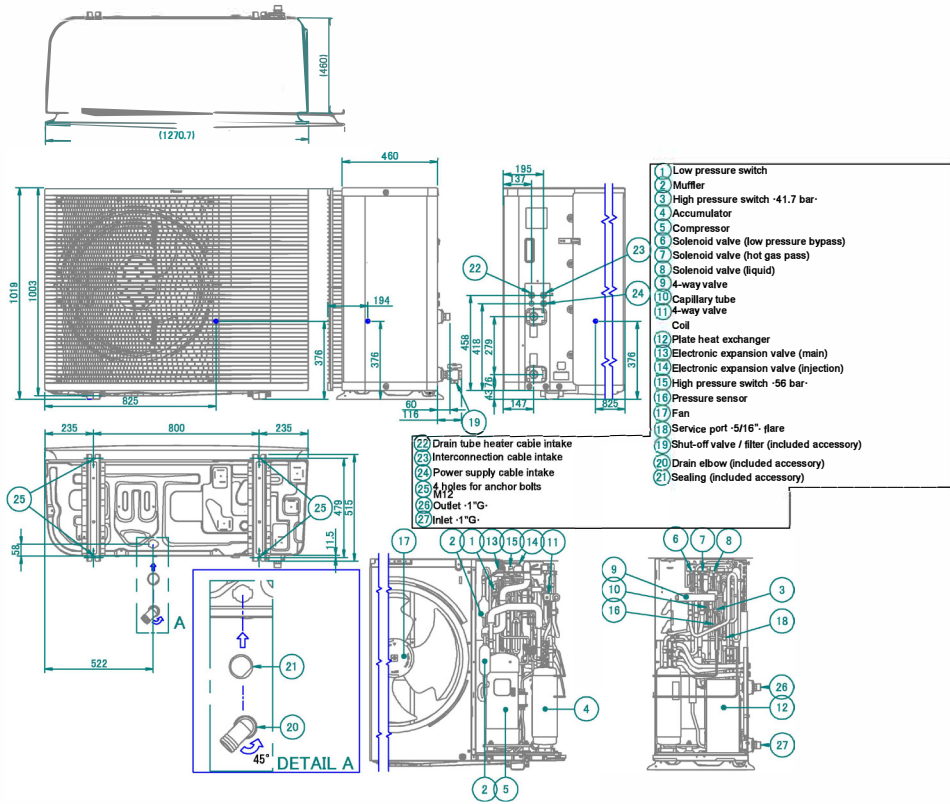
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5 Dimensional drawings

5 - 1 Dimensional Drawings

5

EPRA14-18DV7
EPRA14-18DW7

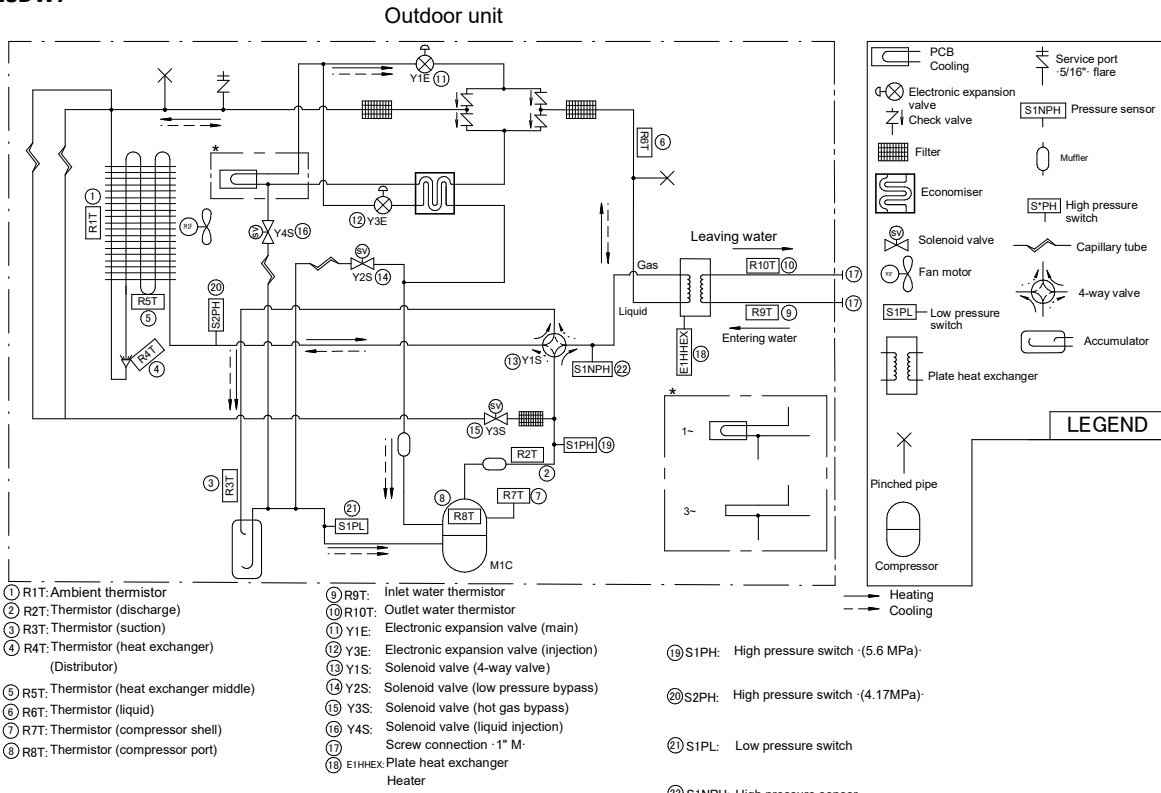


3D124101C

6 Piping diagrams

6 - 1 Piping Diagrams

EPRA14-18DV7
EPRA14-18DW7

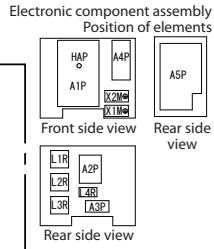
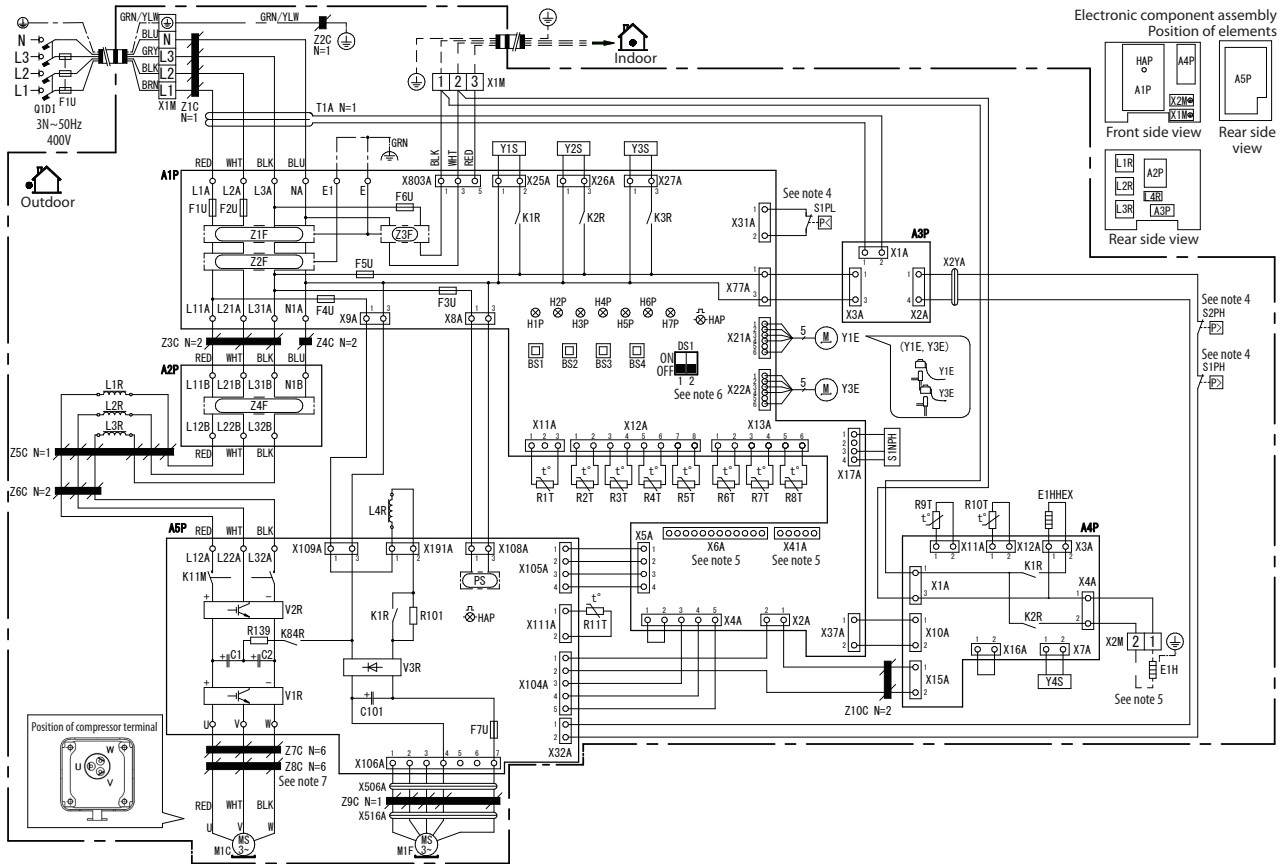


7 Wiring diagrams

7 - 1 Compressor - Three phase

7

EPRA14-18DW7



A1P	Printed circuit board (main)
A2P	Printed circuit board (noise filter)
A3P	Printed circuit board (leakage current)
A4P	Printed circuit board (ACS)
A5P	Printed circuit board (inverter)
BS1~BS4 (A1P)	Push-button switch
C1 ~ C101 (A5P)	Capacitor
DS1 (A1P)	DIP switch
E1H	Drain tube heater (field supply)
E1HHEX	PHE heaters
F1U	Field fuse (supply supply)
F1U~F7U (A1P, A5P)	Fuse
H1P~H7P (A1P)	Light-emitting diode (service monitor is orange)
HAP (A1P, A5P)	Light-emitting diode (service monitor is green)
K1R (A1P)	Magnetic relay (Y1S)
K1R, K84R (A5P)	Magnetic relay
K1R (A4P)	Magnetic relay (E1HHEX)
K2R (A1P)	Magnetic relay (Y2S)
K2R (A4P)	Magnetic relay (E1H)
K3R (A1P)	Magnetic relay (Y3S)
K11M (A5P)	Magnetic contactor
L1R ~ L4R	Reactor
M1C	Motor (compressor)
M1F	Motor (fan)
PS (A1P)	Switching power supply
Q1DI	Earth leakage circuit breaker (30mA)(field supply)
R101, R139 (A5P)	Resistor
R1T	Thermistor (ambient)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger distributor)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (refrigerant liquid)
R7T	Thermistor (compressor)
R8T	Thermistor (port)
R9T	Thermistor (inlet water)
R10T	Thermistor (outlet water)
R11T	Thermistor (fin)
S1NPH	High pressure sensor

S1PH, S2PH	High pressure switch
S1PL	Low pressure switch
T1A	Current transfo
V1R, V2R (A5P)	IGBT power module
V3R (A5P)	Diode module
X1M~X2M	Terminal strip
Y1E	Electronic expansion valve (main)
Y3E	Electronic expansion valve (injection)
Y1S	Solenoid valve (4-way valve)
Y2S	Solenoid valve (low pressure bypass)
Y3S	Solenoid valve (hot gas bypass)
Y4S	Solenoid valve (liquid injection)
Z1C~Z10C	Noise filter (ferrite core)
Z1F~Z4F (A1P, A2P)	Noise filter

NOTES

1. L : Live
 ⊕ : Protective earth
 : Field wiring
 : Terminal strip
 : Connector
2. Colours: BLK: black, RED: red, BLU: bleu, WHT: white, GRN: green, YLW: yellow, PNK: pink, ORG: orange, GRY: grey, BRN: brown
3. This wiring diagram applies only to the outdoor unit.
4. When operating, do not short-circuit protection device S1PH, S2PH and S1PL.
5. Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X2M.
6. The factory setting of all switches is OFF, do not change the setting of the selector switch (DS1).
7. Ferrite core Z8C consists out of 2 separate core parts.

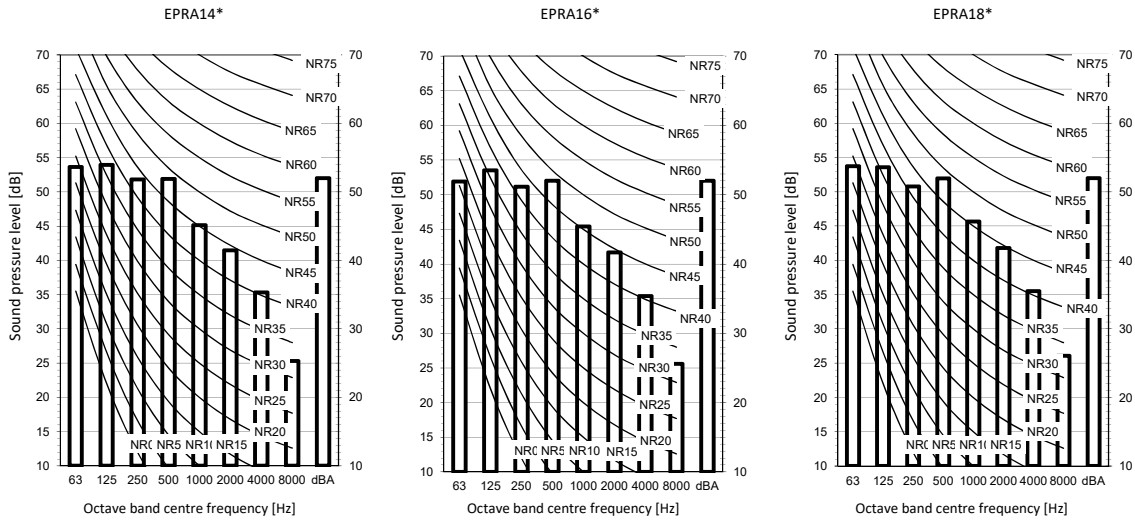
2D124519D

8 Sound data

8 - 1 Sound Pressure Spectrum - Cooling

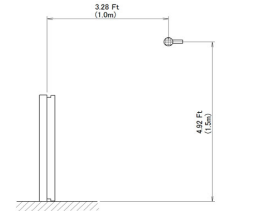
EPRA14-18DV7
EPRA14-18DW7

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)

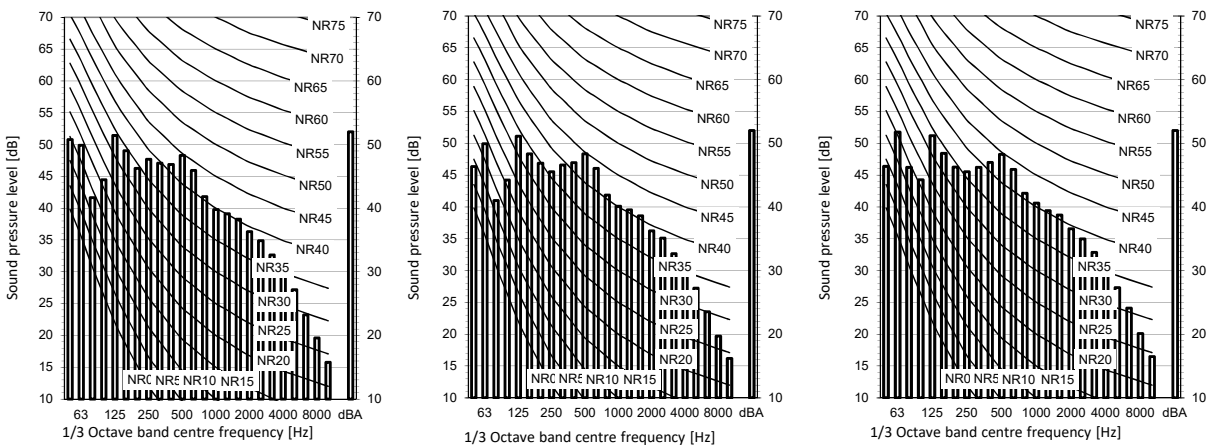
3D126758

EPRA14-18DV7
EPRA14-18DW7

EPRA14*

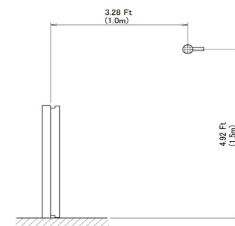
EPRA16*

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.



Measuring location (discharge side)

3D126758

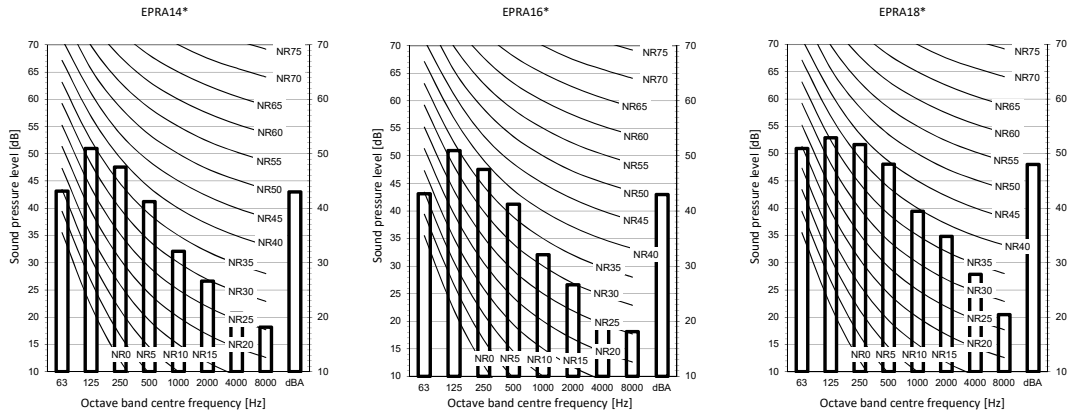
8 Sound data

8 - 2 Sound Pressure Spectrum - Heating

8

EPRA14-18DV7 EPRA14-18DW7

Heating Sound

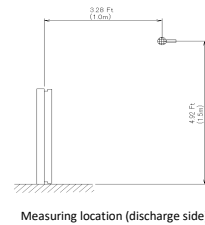


Notes (graphics only)

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)



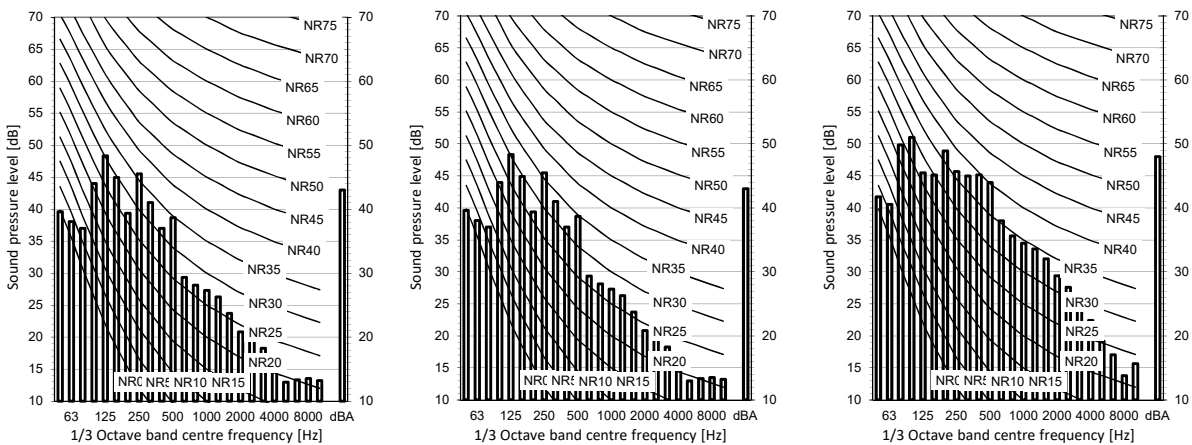
3D125215A

EPRA14-18DV7 EPRA14-18DW7

EPRA14*

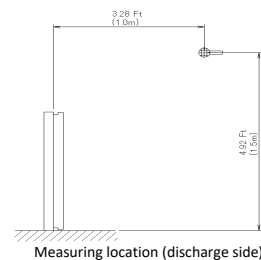
EPRA16*

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.



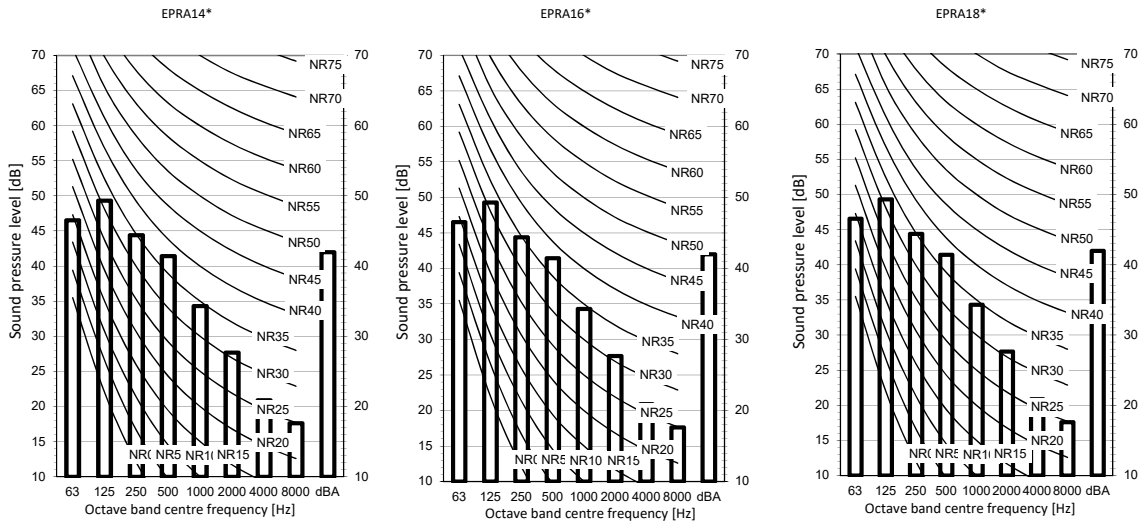
3D125215A

8 Sound data

8 - 3 Sound Pressure Spectrum Quiet Mode

EPRA14-18DV7
EPRA14-18DW7

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.

Measuring location (discharge side)

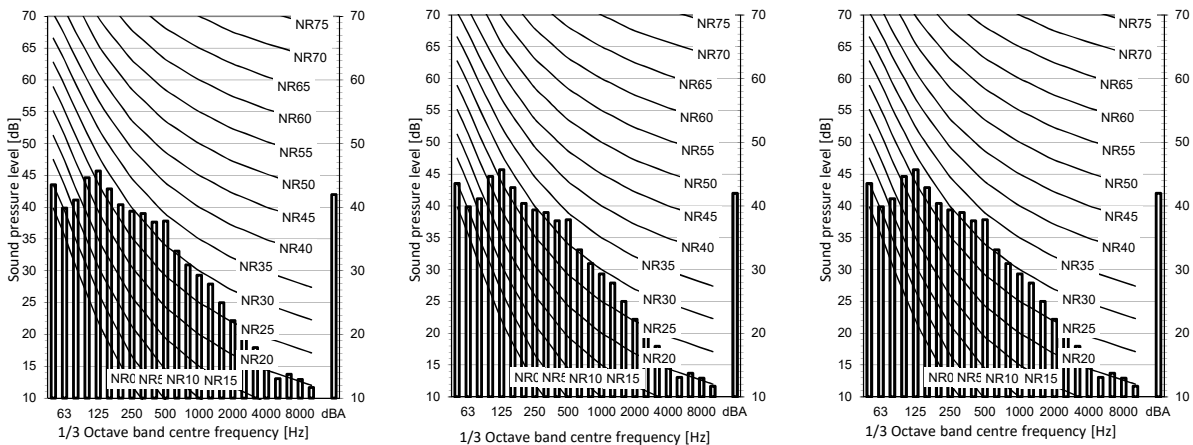
3D125214

EPRA14-18DV7
EPRA14-18DW7

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.

Measuring location (discharge side)

3D125214

8 Sound data

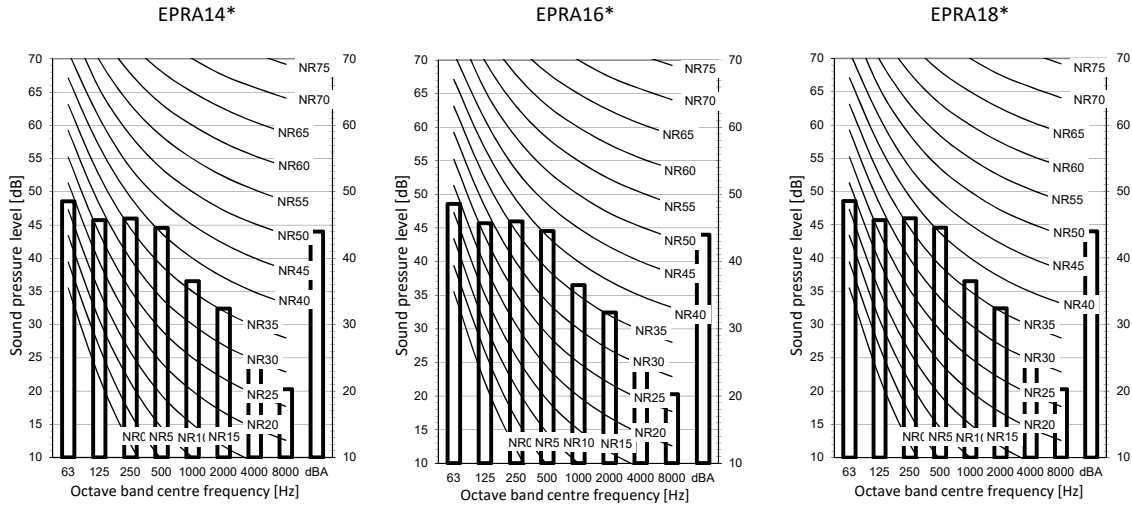
8 - 3 Sound Pressure Spectrum Quiet Mode

8

EPRA14-18DV7

EPRA14-18DW7

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.

3D126757

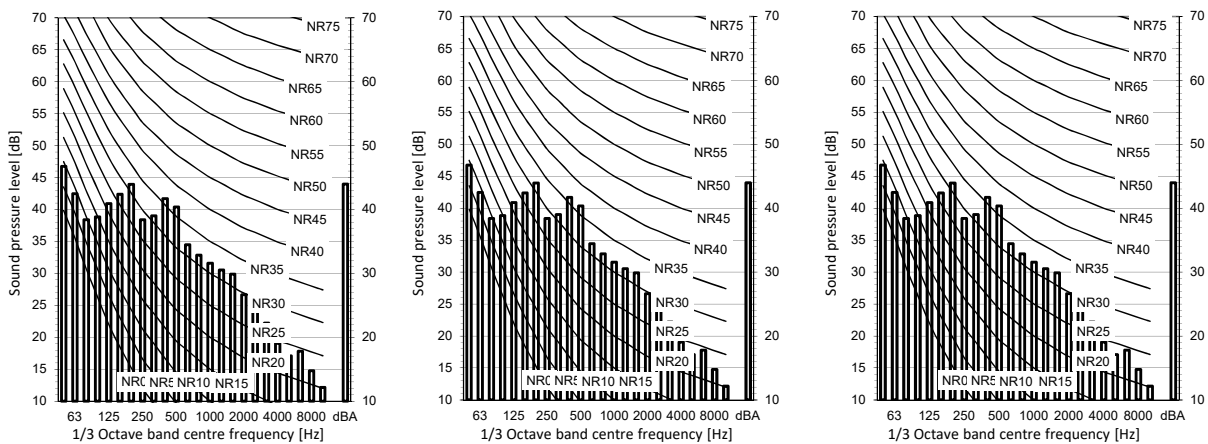
EPRA14-18DV7

EPRA14-18DW7

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.

3D126757

9 Installation

9 - 2 Installation Method in cascade applications

EPRA14-18DV7 / EPRA14-18DW7

Installation requirements for ·EPRA*DA*· units

Cascading outdoor units.

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

Legend Symbols

A, C Obstacles (walls/baffle plates)

B Obstacles on the suction side

D Obstacles on the discharge side

E Obstacle (roof)

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

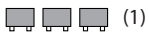
e_b Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B

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

H_u Height of the unit

H_b,H_d Height of obstacles B and D

⊘ Not allowed



(1)



(2)

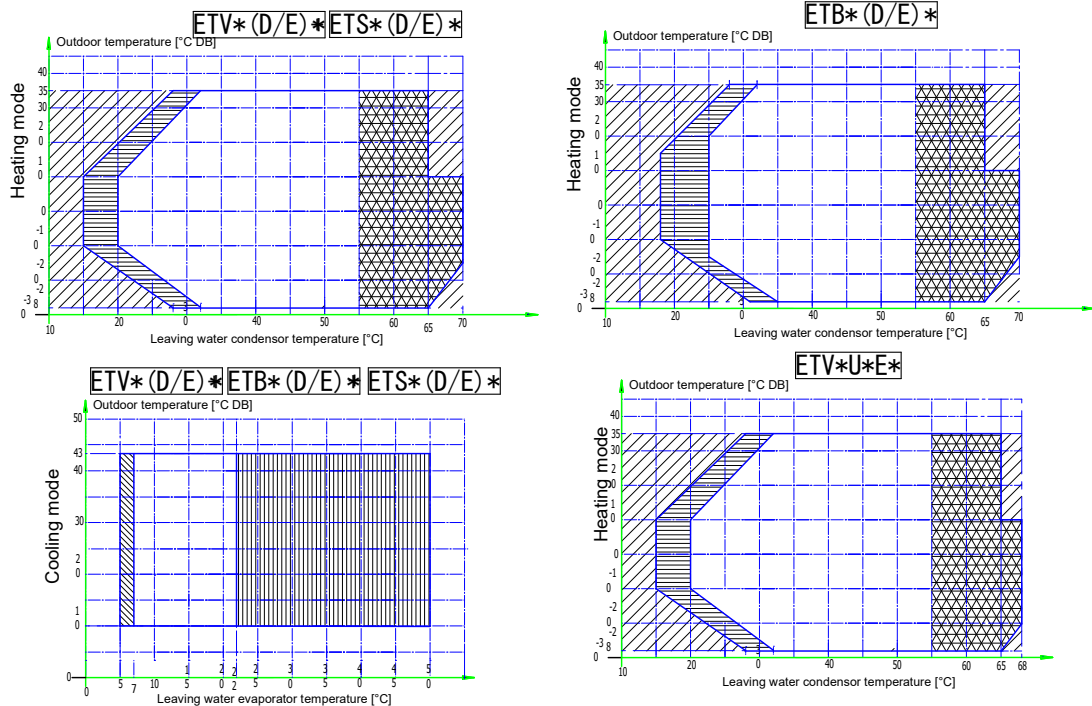
3D141221

10 Operation range

10 - 1 Operation Range

10

EPRA14-18DV7
EPRA14-18DW7



Legend

- Backup heater only operation
No outdoor unit operation
- Outdoor unit operation if setpoint ≥ -20
- Pull-down area
- Outdoor unit operation if setpoint $> -55^{\circ}\text{C}$ and $\Delta T = -10^{\circ}\text{C}$ ($\Delta T = \text{outlet temperature} - \text{inlet temperature}$)
- In case valve kit -AFVALVE1- is part of the system, then the minimum setpoint is -7°C .

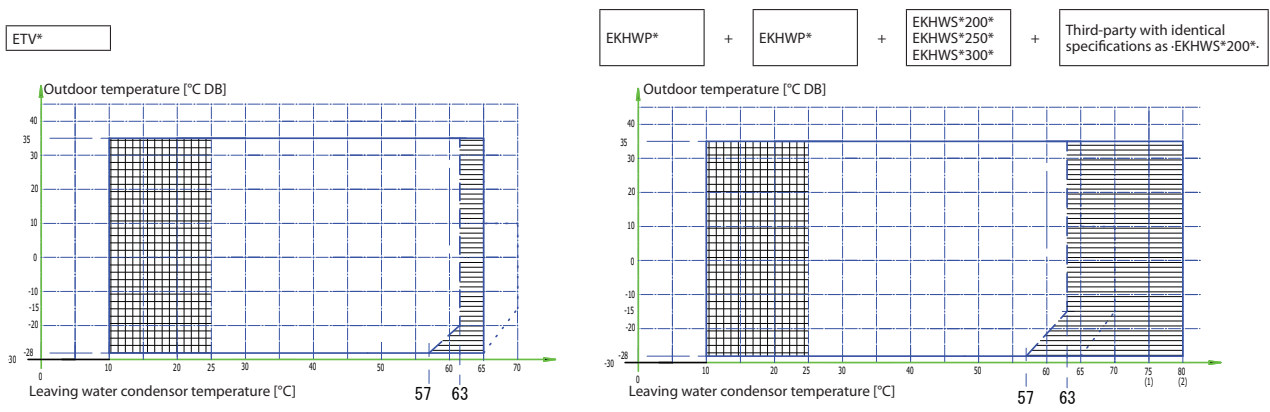
Remark

In restricted power supply mode, the outdoor unit, booster heater and backup heater can only operate separately.

3D125788C

EPRA14-18DV7
EPRA14-18DW7

Domestic hot water heating mode



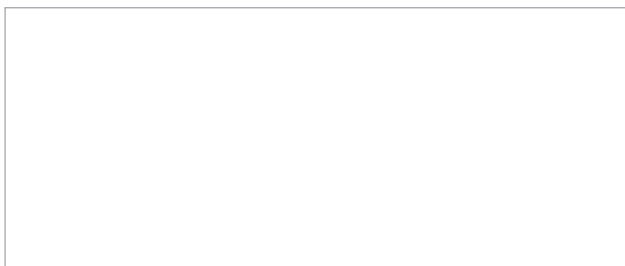
LEGEND

- Setpoint [$^{\circ}\text{C}$]
 - Domestic hot water
 - Pull-up area
 - Booster heater only operation (if a booster heater is part of the system)
- (1) Combination of -EKHWS- and -ETB*16*- indoor units / -ETS*16*- indoor units only
(2) Combination of -EKHWP- and -ETB*16*- indoor units

REMARK

1. In restricted power supply mode (-EKHW* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as -EKHWS*150*. Coil surface $> 1.05\text{-m}^2$. Tank thermostat: top part of heat pump coil. Small overlap.
3. Third-party with identical specifications as -EKHWS*200*. Coil surface $> 1.8\text{-m}^2$. Tank thermostat: top part of heat pump coil. Small overlap.

3D125789C



EEDEN23

03/2023



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