



Daikin Altherma high
temperature split
Technical Data
EPRA014-018DV

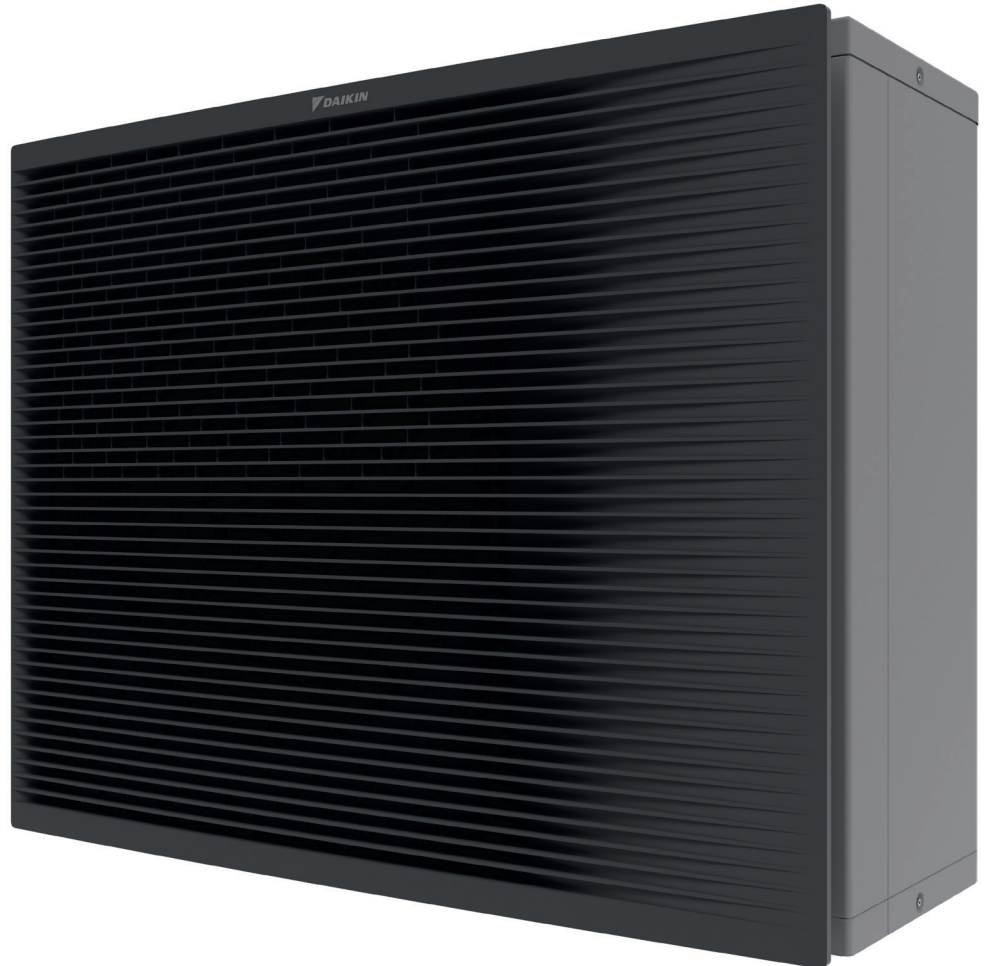


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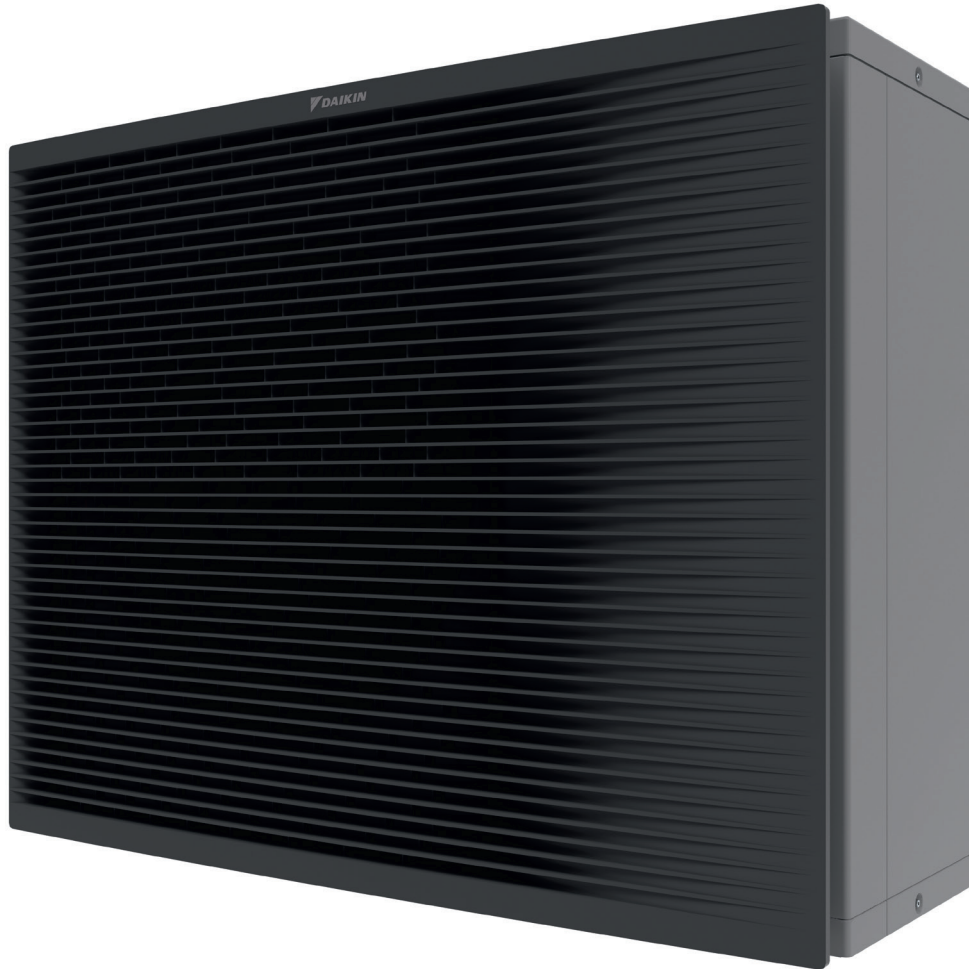
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1 Features

1 - 1 EPRA014-018DV

- › 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

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E6V + EPRA14DV3	ETBH16E6V + EPRA16DV3	ETBH16E6V + EPRA18DV3	
Outdoor unit				EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)	
	Nom.		kW	5.69 (2)	9.00 (2)		
	Max.		kW	10.18 (1)	10.91 (1)	12.12 (1)	
Power input	Heating	Min.	kW	0.88 (3)	0.95 (3)	1.05 (3)	
		Nom.	kW	1.22 (2)	1.80 (2)		
		Max.	kW	2.09 (3)	2.24 (3)	2.49 (3)	
COP				4.67 (2)		5.00 (2)	
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM					
	Nominal ESP unit	Heating	kPa	111.2 (4)	97.4 (4)		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		
General	Supplier/Manufacturer details	Name and address Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes		
		Brine-to-water heat pump			No		
		Heat pump combination heater			Yes		
		Low-temperature heat pump			No		
		Supplementary heater integrated			Yes		
		Water-to-water heat pump			No		
	LW(A) Sound power level	Indoor		dB(A)	44.0		
	LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0		
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	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	0.021			
		Psb (Standby mode)	kW	0.021			
		Pto (Thermostat off)	kW	0.041			
	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	7,211		
			ηs (Seasonal space heating efficiency)	%	140		
			Prated at -10°C	kW	13		
			Qhe Annual energy consumption (GCV)	Gj	26		
			SCOP	3.58			
			Seasonal space heating eff. class	A++			

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications			ETBH16E6V + EPRA14DV3	ETBH16E6V + EPRA16DV3	ETBH16E6V + EPRA18DV3	
Space heating	Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0	
			COPd		2.47	
			Pdh kW		11.2	
				PERd %		98.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.56	
			Pdh kW		6.9	
				PERd %		142.4
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		4.44	
			Pdh kW		6.9	
				PERd %		177.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.72	
			Pdh kW		6.2	
				PERd %		228.8
		Tol (temperature operating limit)		COPd		2.19
				Pdh kW		12.2
				PERd %		87.6
				TOL °C		-10
				WTOL °C		55
		Rated heat output		Psup (at Tdesign -10°C) kW		0.3
			Tbiv (bivalent temperature)	COPd		2.19
Pdh kW		12.2				
PERd %		87.6				
Tbiv °C		-10				
Cold climate water outlet 55°C	General	Annual energy consumption kWh		9,654		
		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			

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2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E6V + EPRA14DV3	ETBH16E6V + EPRA16DV3	ETBH16E6V + EPRA18DV3		
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	PERd	%		146.8		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
				COPd			4.69	
				Pdh	kW		5.6	
				PERd	%		187.6	
			D Condition (12°CDB/11°CWB)	COPd			6.12	
				Pdh	kW		6.2	
				PERd	%		244.8	
				Tol (temperature operating limit)	COPd			1.65
			Pdh		kW		10.6	
			PERd		%		66.0	
			TOL		°C		-22	
			G Condition (-15°CDB/-)	WTOL	°C		55	
				COPd			2.17	
				Pdh	kW		10.3	
				PERd	%		86.8	
			Tbiv (bivalent temperature)	COPd			1.90	
				Pdh	kW		11.0	
				PERd	%		76.0	
				Tbiv	°C		-18	
Warm climate water outlet 55°C	General		Rated heat output	Psup (at Tdesign -22°C)	kW		1.9	
			Annual energy consumption				4,090	
			ηs (Seasonal space heating efficiency)	%			160	
			Prated at 2°C	kW			13	
	B Condition (2°CDB/1°CWB)			Qhe Annual energy consumption (GCV)	Gj			15
				Cdh (Degradation heating)				1.0
				COPd				2.45
				Pdh	kW			10.0
	C Condition (7°CDB/6°CWB)			PERd	%			98.0
				Cdh (Degradation heating)				1.0
				COPd				3.69
				Pdh	kW			7.9
	D Condition (12°CDB/11°CWB)			PERd	%			147.6
				Cdh (Degradation heating)				1.0
				COPd				5.39
				Pdh	kW			5.9
			PERd	%			215.6	

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E6V + EPRA14DV3	ETBH16E6V + EPRA16DV3	ETBH16E6V + EPRA18DV3
Space heating	Warm climate water outlet 55°C	Tbiv	COPd		3.27	
		(bivalent tempera- ture)	Pdh kW		9.9	
Water outlet 45°C (-2°C/-)	H Condition	PERd	%		130.8	
		Tbiv	°C		5	
Average climate water outlet 35°C	General	Max.	kW	11.1		11.8
		Annual energy consumption	kWh		5,726	
		ηs (Seasonal space heating efficiency)	%		177	
		Prated at -10°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		21	
		SCOP			4.51	
		Seasonal space heating eff. class			A+++	
		A Con- dition (-7°CDB/-8°CWB)	COPd		3.12	
			Pdh kW		11.1	
			PERd %		124.8	
B Con- dition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
	COPd		4.44			
	Pdh kW		6.7			
C Con- dition (7°CDB/6°CWB)	PERd %		177.6			
	Cdh (Degradation heating)		1.0			
	COPd		5.84			
D Con- dition (12°CDB/11°CWB)	Pdh kW		5.7			
	PERd %		233.6			
	Cdh (Degradation heating)		1.0			
Tol (tem- perature operating limit)	COPd		7.40			
	Pdh kW		6.0			
	PERd %		296.0			
Tbiv (bivalent tempera- ture)	TOL	°C	2.76			
	WTOL	°C	11.1			
	COPd		110.4			
Rated heat output	Tbiv	°C	-10			
	PERd %		35			
	WTOL	°C	35			
Cold climate wa- ter outlet 35°C	Tbiv	°C	3.12			
	Pdh kW		11.1			
	PERd %		124.8			
General	Tbiv	°C	-7			
	PERd %		124.8			
Annual energy consumption	Rated heat output	kW	1.4			
	Annual energy consumption	kWh	7,417			

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2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E6V + EPRA14DV3	ETBH16E6V + EPRA16DV3	ETBH16E6V + EPRA18DV3	
Space heating 	Cold climate water outlet 35°C	General	η_s (Seasonal space heating efficiency)	%	163		
			Prated at -22°C	kW	13		
			Q_{he} Annual energy consumption (GCV)	Gj	27		
			A Condition (-7°CDB/-B/-8°CWB)	COPd		3.50	
				Pdh	kW	8.0	
				PERd	%	140.0	
			B Condition (2°CDB/-B/1°CWB)	Cdh (Degradation heating)		1.0	
				COPd		5.07	
				Pdh	kW	4.9	
			C Condition (7°CDB/-B/6°CWB)	Cdh (Degradation heating)		1.0	
				COPd		6.10	
				Pdh	kW	5.3	
			D Condition (12°CDB/-B/11°CWB)	Cdh (Degradation heating)		1.0	
				COPd		7.03	
				Pdh	kW	5.7	
			Tol (temperature operating limit)	COPd		281.2	
				Pdh	kW	2.16	
				PERd	%	10.1	
			G Condition (-15°CDB/-)	TOL	°C	86.4	
				WTOL	°C	-22	
		35					
Warm climate water outlet 35°C	General	COPd		2.62			
		Pdh	kW	10.7			
		PERd	%	104.8			
		Tbiv	°C	2.62			
		Pdh	kW	10.7			
		PERd	%	104.8			
		Tbiv	°C	-15			
		Rated heat output	Psup (at Tdesign -22°C)	kW	2.4		
		Annual energy consumption		kWh	2,885		
			η_s (Seasonal space heating efficiency)	%	229		
Prated at 2°C	kW		13				
B Condition (2°CDB/1°CWB)	Q_{he} Annual energy consumption (GCV)	Gj	10				
	Cdh (Degradation heating)		1.0				
	COPd		3.67				
C Condition (7°CDB/-B/6°CWB)	Pdh	kW	9.8				
	PERd	%	146.8				
	Cdh (Degradation heating)		1.0				
D Condition (12°CDB/-B/11°CWB)	COPd		5.60				
	Pdh	kW	7.9				
	PERd	%	224.0				
Tbiv (bivalent temperature)	COPd		4.95				
	Pdh	kW	9.8				
	PERd	%	198.0				
D Condition (12°CDB/-B/11°CWB)	Tbiv	°C	5				
	Cdh (Degradation heating)		1.0				
	COPd		7.60				
Annual energy consumption	Pdh	kW	6.1				
	PERd	%	304.0				

(1) Capacity according to standard EN14511 and valid for heated water range $dT = 3\text{--}8^\circ\text{C}$ at $T_a 7^\circ\text{C}$ |

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

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

(4) DB/WB $7^\circ\text{C}/6^\circ\text{C}$ - LWC 35°C ($dT = 5^\circ\text{C}$) 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 T_a DB/WB $7^\circ\text{C}/6^\circ\text{C}$. According to EN 16147.

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E9W + EPRA14DV3	ETBH16E9W + EPRA16DV3	ETBH16E9W + EPRA18DV3	
Outdoor unit				EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)	
	Nom.		kW	5.69 (2)	9.00 (2)		
	Max.		kW	10.18 (1)	10.91 (1)	12.12 (1)	
Power input	Heating	Min.	kW	0.88 (3)	0.95 (3)	1.05 (3)	
		Nom.	kW	1.22 (2)	1.80 (2)		
		Max.	kW	2.09 (3)	2.24 (3)	2.49 (3)	
COP				4.67 (2)		5.00 (2)	
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM					
	Nominal ESP unit	Heating	kPa	111.2 (4)	97.4 (4)		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		
General	Supplier/Manufacturer details	Name and address Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes		
		Brine-to-water heat pump			No		
		Heat pump combination heater			Yes		
		Low-temperature heat pump			No		
		Supplementary heater integrated			Yes		
		Water-to-water heat pump			No		
LW(A) Sound power level	Indoor		dB(A)	44.0			
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	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	0.021			
		Psb (Standby mode)	kW	0.021			
		Pto (Thermostat off)	kW	0.041			
	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	7,211		
			ηs (Seasonal space heating efficiency)	%	140		
			Prated at -10°C	kW	13		
			Qhe Annual energy consumption (GCV)	Gj	26		
			SCOP	3.58			
			Seasonal space heating eff. class	A++			

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E9W + EPRA14DV3	ETBH16E9W + EPRA16DV3	ETBH16E9W + EPRA18DV3	
Space heating 	Average climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0		
			COPd		2.47		
			Pdh kW		11.2		
				PERd %		98.8	
		B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)		1.0		
			COPd		3.56		
			Pdh kW		6.9		
				PERd %		142.4	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
			COPd		4.44		
			Pdh kW		6.9		
				PERd %		177.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
			COPd		5.72		
			Pdh kW		6.2		
				PERd %		228.8	
		Tol (temperature operating limit)		COPd		2.19	
				Pdh kW		12.2	
				PERd %		87.6	
				TOL °C		-10	
				WTOL °C		55	
		Rated heat output		Psup (at Tdesign -10°C) kW		0.3	
				Tbiv COPd		2.19	
(bivalent temperature)		Pdh kW		12.2			
		PERd %		87.6			
		Tbiv °C		-10			
Cold climate water outlet 55°C	General	Annual energy consumption kWh		9,654			
		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				

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E9W + EPRA14DV3	ETBH16E9W + EPRA16DV3	ETBH16E9W + EPRA18DV3
Space heating Cold climate water out- let 55°C		B Condition (2°CDB/1°CWB)	PERd	%		146.8
		C Con- dition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0
			COPd			4.69
			Pdh	kW		5.6
			PERd	%		187.6
		D Con- dition (12°CDB- B/11°CWB)	COPd			6.12
			Pdh	kW		6.2
			PERd	%		244.8
		Tol (tem- perature operating limit)	COPd			1.65
			Pdh	kW		10.6
			PERd	%		66.0
			TOL	°C		-22
			WTOL	°C		55
		G Con- dition (-15°CDB/-)	COPd			2.17
			Pdh	kW		10.3
			PERd	%		86.8
		Tbiv (bivalent tempera- ture)	COPd			1.90
			Pdh	kW		11.0
			PERd	%		76.0
			Tbiv	°C		-18
Rated heat output	Psup (at Tdesign -22°C)	kW		1.9		
Warm climate water out- let 55°C	General	Annual energy consumption	kWh		4,090	
		ηs (Seasonal space heating efficiency)	%		160	
		Prated at 2°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		15	
	B Con- dition (2°CDB- B/1°CWB)	Cdh (Degradation heating)			1.0	
		COPd			2.45	
		Pdh	kW		10.0	
		PERd	%		98.0	
	C Con- dition (7°CDB- B/6°CWB)	Cdh (Degradation heating)			1.0	
		COPd			3.69	
		Pdh	kW		7.9	
		PERd	%		147.6	
	D Con- dition (12°CDB- B/11°CWB)	Cdh (Degradation heating)			1.0	
		COPd			5.39	
Pdh		kW		5.9		
	PERd	%		215.6		

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E9W + EPRA14DV3	ETBH16E9W + EPRA16DV3	ETBH16E9W + EPRA18DV3			
Space heating	Warm climate water outlet 55°C	Tbiv (bivalent temperature)	COPd		3.27				
			Pdh kW		9.9				
			PERd %		130.8				
	Water outlet 45°C (2°C/-)	H Condition	Max.	Tbiv °C		5			
				kW	11.1		11.8		
	Average climate water outlet 35°C	General	Annual energy consumption	kWh		5,726			
				ηs (Seasonal space heating efficiency) %		177			
				Prated at -10°C kW		13			
				Qhe Annual energy consumption (GCV) GJ		21			
				SCOP		4.51			
				Seasonal space heating eff. class		A+++			
				A Condition (-7°CDB/-8°CWB)	COPd			3.12	
						Pdh kW		11.1	
						PERd %		124.8	
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
	COPd		4.44						
	Pdh kW		6.7						
		PERd %			177.6				
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0		
					COPd		5.84		
	Pdh kW				5.7				
		PERd %			233.6				
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0		
					COPd		7.40		
	Pdh kW				6.0				
		PERd %			296.0				
			Tol (temperature operating limit)	COPd			2.76		
Pdh kW						11.1			
PERd %		110.4							
	TOL °C			-10					
		WTOL °C			35				
			Tbiv (bivalent temperature)	COPd			3.12		
Pdh kW					11.1				
PERd %		124.8							
	Tbiv °C			-7					
		Rated heat output	Psup (at Tdesign -10°C) kW			1.4			
				General	Annual energy consumption kWh		7,417		
Cold climate water outlet 35°C									

2 Specifications

1 - 1 EPRA014-018DV

Technical specifications				ETBH16E9W + EPRA14DV3	ETBH16E9W + EPRA16DV3	ETBH16E9W + EPRA18DV3												
Space heating Cold climate water outlet 35°C	General	ns (Seasonal space heating efficiency)	%	163														
				Prated at -22°C	kW	13												
				A Condition (-7°CDB/-8°CWB)	COPd	Pdh	kW	3.50										
								PERd	%	140.0								
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0									
									PERd	%	5.07							
											202.8							
				C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0									
									PERd	%	6.10							
											244.0							
				D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0									
									PERd	%	7.03							
											281.2							
				Tol (temperature operating limit)	COPd	Pdh	kW	2.16										
								PERd	%	10.1								
										86.4								
								TOL	°C	-22								
				G Condition (-15°CDB/-)	COPd	Pdh	kW	35										
								PERd	%	2.62								
										10.7								
								Tbiv	°C	104.8								
				Rated heat output	COPd	Pdh	kW	2.62										
								PERd	%	10.7								
104.8																		
Tbiv	°C	-15																
Space heating Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,885														
				ns (Seasonal space heating efficiency)	%	229												
						Prated at 2°C	kW	13										
								Qhe Annual energy consumption (GCV)	Gj	10								
										B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0			
															PERd	%	3.67	
																	146.8	
										C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0			
															PERd	%	5.60	
																	224.0	
Tbiv (bivalent temperature)	COPd	Pdh	kW							4.95								
				PERd	%					9.8								
						198.0												
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd	Pdh	kW	1.0													
					PERd	%	7.60											
							304.0											

(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.

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Technical specifications					ETBX16E6V + EPRA14DV3	ETBX16E6V + EPRA16DV3	ETBX16E6V + EPRA18DV3	
Outdoor unit					EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)		
	Nom.		kW	5.69 (2)	9.00 (2)			
	Max.		kW	10.18 (1)	10.91 (1)	12.12 (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	0.88 (5)	0.95 (5)	1.05 (5)		
		Nom.	kW	1.22 (2)	1.80 (2)			
		Max.	kW	2.09 (5)	2.24 (5)	2.49 (5)		
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)	2.80 (3) / 2.93 (4)	3.05 (3) / 3.31 (4)		
COP					4.67 (2)	5.00 (2)		
EER					4.13 (3) / 2.70 (4)	4.11 (3) / 2.69 (4)	4.09 (3) / 2.68 (4)	
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM			
	Nominal ESP unit	Heating		kPa	111.2 (6)	97.4 (6)		
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)	25.8 (2)		
					General			Supplier/Manufacturer details
					Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
					Name or trademark			
					Daikin Europe N.V.			
					Product description			
					Air-to-water heat pump			
					Yes			
					Brine-to-water heat pump			
					No			
					Heat pump combination heater			
					Yes			
					Low-temperature heat pump			
					No			
					Supplementary heater integrated			
					Yes			
					Water-to-water heat pump			
					No			
					LW(A) Sound power level	Indoor	dB(A)	44.0
					LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)	54.0
Sound condition Ecodesign and energy label					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	3,918		3,960		
				Other			Capacity control	
				Inverter				
				Pck (Crankcase heater mode)				
				0.000				
				Poff (Off mode)				
				0.021				
				Psb (Standby mode)				
				0.021				
				Pto (Thermostat off)				
			0.041					
			Integrated supplementary heater					
			Psup					
			6.0					
			Type of energy input					
			Electrical					
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,134			
			η _s (Seasonal space heating efficiency)	%	142			
			Prated at -10°C	kW	13			

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Technical specifications				ETBX16E6V + EPRA14DV3	ETBX16E6V + EPRA16DV3	ETBX16E6V + EPRA18DV3	
Space heating	Average climate water outlet 55°C	General	Q _{he} Annual energy consumption (GCV)	Gj		26	
			SCOP			3.62	
			Seasonal space heating eff. class			A++	
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0
				COPd			2.47
				Pdh kW			11.2
			B Condition (2°CDB/1°CWB)	PERd %			98.8
				Cdh (Degradation heating)			1.0
				COPd			3.56
			C Condition (7°CDB/6°CWB)	Pdh kW			6.9
				PERd %			142.4
				Cdh (Degradation heating)			1.0
			D Condition (12°CDB/11°CWB)	COPd			4.44
				Pdh kW			6.9
				PERd %			177.6
			Tol (temperature operating limit)	Cdh (Degradation heating)			1.0
				COPd			5.72
				Pdh kW			6.2
				PERd %			228.8
			Rated heat output	Tol (temperature operating limit)			2.19
Pdh kW				12.2			
PERd %				87.6			
TOL °C				-10			
Tbiv (bivalent temperature)	WTOL °C			55			
	Psup (at Tdesign -10°C)	kW		0.3			
	COPd			2.19			
	Pdh kW			12.2			
Cold climate water outlet 55°C	PERd %			87.6			
	Tbiv °C			-10			
	General	Annual energy consumption	kWh	9,609			
	η _s (Seasonal space heating efficiency)	%		125			
A Condition (-7°CDB/-8°CWB)	Prated at -22°C	kW		13			
	Q _{he} Annual energy consumption (GCV)	Gj		35			
	Cdh (Degradation heating)			1.0			
	COPd			2.74			
B Condition (-7°CDB/-8°CWB)	Pdh kW			7.5			
	PERd %			109.6			

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Technical specifications				ETBX16E6V + EPRA14DV3	ETBX16E6V + EPRA16DV3	ETBX16E6V + EPRA18DV3
Space heating Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0
		COPd				3.67
		Pdh	kW			5.8
		PERd	%			146.8
		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
		Pdh	kW			10.3
		PERd	%			86.8
	T _{biv} (bivalent temperature)	COPd				1.90
		Pdh	kW			11.0
		PERd	%			76.0
T _{biv}		°C			-18	
Rated heat output	P _{sup} (at T _{design} -22°C)		kW			1.9
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh		3,997
η _s (Seasonal space heating efficiency)			%			164
Prated at 2°C			kW			13
Q _{he} Annual energy consumption (GCV)			Gj			14
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0	
	COPd				2.45	
	Pdh	kW			10.0	
	PERd	%			98.0	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0	
	COPd				3.69	
	Pdh	kW			7.9	
	PERd	%			147.6	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	

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Technical specifications				ETBX16E6V + EPRA14DV3	ETBX16E6V + EPRA16DV3	ETBX16E6V + EPRA18DV3	
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd			5.39	
			Pdh	kW		5.9	
			PERd	%		215.6	
	Tbiv (bivalent temperature)			COPd			3.27
				Pdh	kW		9.9
				PERd	%		130.8
				Tbiv	°C		5
	Water outlet 45°C (2°C/-)	H Condition	Max.	kW	11.1		11.8
	Average climate water outlet 35°C	General		Annual energy consumption	kWh		5,649
				η_s (Seasonal space heating efficiency)	%		180
Prated at -10°C				kW		13	
Qhe Annual energy consumption (GCV)				Gj		20	
SCOP						4.57	
Seasonal space heating eff. class						A+++	
A Condition (-7°CDB/-8°CWB)						COPd	
		Pdh	kW				11.1
		PERd	%				124.8
B Condition (2°CDB/1°CWB)				Cdh (Degradation heating)			1.0
				COPd			4.44
				Pdh	kW		6.7
				PERd	%		177.6
C Condition (7°CDB/6°CWB)			Cdh (Degradation heating)			1.0	
			COPd			5.84	
			Pdh	kW		5.7	
			PERd	%		233.6	
D Condition (12°CDB/11°CWB)			Cdh (Degradation heating)			1.0	
			COPd			7.40	
			Pdh	kW		6.0	
			PERd	%		296.0	
Tol (temperature operating limit)			COPd			2.76	
			Pdh	kW		11.1	
			PERd	%		110.4	
			TOL	°C		-10	
			WTOL	°C		35	
Tbiv (bivalent temperature)			COPd			3.12	
			Pdh	kW		11.1	
			PERd	%		124.8	

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Technical specifications				ETBX16E6V + EPRA14DV3	ETBX16E6V + EPRA16DV3	ETBX16E6V + EPRA18DV3	
Space heating Average climate water outlet 35°C Cold climate water outlet 35°C	Average climate water outlet 35°C	Tbiv (bivalent temperature)	Tbiv °C			-7	
	Rated heat output		Psup (at Tdesign -10°C)	kW		1.4	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh			7,370
			ηs (Seasonal space heating efficiency)	%			164
			Prated at -22°C	kW			13
	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)	Cdh (Degradation heating)					1.0
			COPd				6.10
			Pdh	kW			5.3
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)					1.0
			COPd				7.03
			Pdh	kW			5.7
	Tol (temperature operating limit)	PERd					281.2
			TOL	°C			-22
			WTOL	°C			35
			COPd				2.16
	G Condition (-15°CDB/-)	COPd					2.62
			Pdh	kW			10.7
			PERd	%			104.8
	Tbiv (bivalent temperature)	COPd					2.62
			Pdh	kW			10.7
			PERd	%			104.8
Tbiv			°C			-15	
Rated heat output		Psup (at Tdesign -22°C)	kW			2.4	
Warm climate water outlet 35°C	General	Annual energy consumption	kWh			2,792	
		ηs (Seasonal space heating efficiency)	%			236	
		Prated at 2°C	kW			13	
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)					1.0	
		COPd				3.67	
		Pdh	kW			9.8	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)					1.0	
		COPd				5.60	
		Pdh	kW			7.9	
Tbiv (bivalent temperature)	PERd					224.0	
		COPd				4.95	
		Pdh	kW			9.8	
		PERd	%			198.0	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)					5	
		COPd				1.0	
		Pdh	kW			7.60	
PERd						6.1	
						304.0	

(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 |

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(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				ETBX16E9W + EPRA14DV3	ETBX16E9W + EPRA16DV3	ETBX16E9W + EPRA18DV3	
Outdoor unit				EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)	3.96 (1)	4.40 (1)	
	Nom.		kW	5.69 (2)	9.00 (2)		
	Max.		kW	10.18 (1)	10.91 (1)	12.12 (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	0.88 (5)	0.95 (5)	1.05 (5)	
		Nom.	kW	1.22 (2)	1.80 (2)		
	Cooling	Max.	kW	2.09 (5)	2.24 (5)	2.49 (5)	
		Nom.	kW	2.55 (3) / 2.56 (4)	2.80 (3) / 2.93 (4)	3.05 (3) / 3.31 (4)	
COP				4.67 (2)	5.00 (2)		
EER				4.13 (3) / 2.70 (4)	4.11 (3) / 2.69 (4)	4.09 (3) / 2.68 (4)	
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM					
	Nominal ESP unit	Heating	kPa	111.2 (6)	97.4 (6)		
Water side Heat exchanger	Water flow rate	Heating Nom.	l/min	16.3 (2)	25.8 (2)		
General	Supplier/Manufacturer details		Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
			Name or trademark	Daikin Europe N.V.			
	Product description			Air-to-water heat pump	Yes		
				Brine-to-water heat pump	No		
				Heat pump combination heater	Yes		
				Low-temperature heat pump	No		
				Supplementary heater integrated	Yes		
			Water-to-water heat pump	No			
LW(A) Sound power level	Indoor		dB(A)	44.0			
(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			
	Integrated supplementary heater	Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.021			
		Psb (Standby mode)	kW	0.021			
		Pto (Thermostat off)	kW	0.041			
	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,134		
			η _{sp} (Seasonal space heating efficiency)	%	142		
		Prated at -10°C	kW	13			

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Technical specifications				ETBX16E9W + EPRA14DV3	ETBX16E9W + EPRA16DV3	ETBX16E9W + EPRA18DV3		
Space heating 	Average climate water outlet 55°C	General	Qhe Annual energy consumption (GCV)		26			
			SCOP		3.62			
			Seasonal space heating eff. class		A++			
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0		
				COPd		2.47		
				Pdh	kW	11.2		
				PERd	%	98.8		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
				COPd		3.56		
				Pdh	kW	6.9		
				PERd	%	142.4		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
				COPd		4.44		
				Pdh	kW	6.9		
				PERd	%	177.6		
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
				COPd		5.72		
				Pdh	kW	6.2		
				PERd	%	228.8		
			Tol (temperature operating limit)		COPd		2.19	
					Pdh	kW	12.2	
					PERd	%	87.6	
					TOL	°C	-10	
	WTOL	°C		55				
Rated heat output (bivalent temperature)		Psup (at Tdesign -10°C)	kW	0.3				
		Tbiv	COPd	2.19				
			Pdh	kW	12.2			
			PERd	%	87.6			
			Tbiv	°C	-10			
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,609				
		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					

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Technical specifications				ETBX16E9W + EPRA14DV3	ETBX16E9W + EPRA16DV3	ETBX16E9W + EPRA18DV3
Space heating 	Cold climate water outlet 55°C	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	
		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		
		Pdh kW		10.3		
		PERd %		86.8		
	Tbiv (bivalent temperature)	COPd		1.90		
		Pdh kW		11.0		
PERd %			76.0			
Tbiv °C			-18			
Rated heat output	Psup (at Tdesign -22°C)	kW		1.9		
Warm climate water outlet 55°C	General	Annual energy consumption	kWh	3,997		
		ηs (Seasonal space heating efficiency)	%	164		
		Prated at 2°C	kW	13		
		Qhe Annual energy consumption (GCV)	Gj	14		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
		COPd		2.45		
		Pdh kW		10.0		
	C Condition (7°CDB/6°CWB)	PERd %		98.0		
		Cdh (Degradation heating)		1.0		
		COPd		3.69		
	D Condition (12°CDB/11°CWB)	Pdh kW		7.9		
		PERd %		147.6		
Cdh (Degradation heating)			1.0			

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Technical specifications				ETBX16E9W + EPRA14DV3	ETBX16E9W + EPRA16DV3	ETBX16E9W + EPRA18DV3													
Space heating	Warm climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd		5.39														
			Pdh	kW		5.9													
			PERd	%		215.6													
		T _{biv} (bivalent temperature)	COPd			3.27													
				Pdh	kW		9.9												
				PERd	%		130.8												
	T _{biv}	°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		5,649													
					η _s (Seasonal space heating efficiency)	%		180											
							Prated at -10°C	kW		13									
									Q _{he} Annual energy consumption (GCV)	GJ		20							
											SCOP		4.57						
												Seasonal space heating eff. class		A+++					
													A Condition (-7°CDB/-8°CWB)	COPd		3.12			
															Pdh	kW		11.1	
																	PERd	%	
													B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
	COPd		4.44																
		Pdh	kW		6.7														
	PERd			%		177.6													
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0													
	COPd				5.84														
				Pdh	kW		5.7												
	PERd	%				233.6													
D Condition (12°CDB/11°CWB)			Cdh (Degradation heating)		1.0														
	COPd			7.40															
		Pdh		kW		6.0													
PERd	%				296.0														
		Tol (temperature operating limit)	COPd		2.76														
Pdh	kW				11.1														
				PERd	%		110.4												
						TOL	°C		-10										
WTOL	°C		35																
		T _{biv} (bivalent temperature)	COPd		3.12														
Pdh	kW				11.1														
				PERd	%		124.8												

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Technical specifications				ETBX16E9W + EPRA14DV3	ETBX16E9W + EPRA16DV3	ETBX16E9W + EPRA18DV3		
Space heating	Average climate water outlet 35°C	Tbiv (bivalent temperature)	Tbiv	°C		-7		
		Rated heat output	Psup (at Tdesign -10°C)	kW		1.4		
	Cold climate water outlet 35°C	General	Annual energy consumption		kWh		7,370	
			ηs (Seasonal space heating efficiency)		%		164	
			Prated at -22°C		kW		13	
			Qhe Annual energy consumption (GCV)		Gj		27	
			A Condition (-7°CDB/-8°CWB)	COPd			3.50	
	B Condition (2°CDB/-1°CWB)	CdH (Degradation heating)			kW		8.0	
			PERd		%		140.0	
							1.0	
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)			kW		5.07	
			PERd		%		4.9	
							202.8	
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			kW		1.0	
			PERd		%		6.10	
							5.3	
	Tol (temperature operating limit)	COPd			kW		244.0	
			PERd		%		1.0	
			TOL		°C		7.03	
			WTOL		°C		5.7	
	G Condition (-15°CDB/-)	COPd			kW		2.16	
			PERd		%		10.1	
			Tbiv (bivalent temperature)		°C		86.4	
			Rated heat output		°C		-22	
	Warm climate water outlet 35°C	General	Annual energy consumption		kWh		35	
			ηs (Seasonal space heating efficiency)		%		2.62	
			Prated at 2°C		kW		10.7	
Qhe Annual energy consumption (GCV)				Gj		104.8		
B Condition (2°CDB/-1°CWB)			COPd			2.62		
CdH (Degradation heating)						kW		10.7
			PERd			%		104.8
							°C	
C Condition (7°CDB/6°CWB)			CdH (Degradation heating)			kW		2.4
				PERd		%		2,792
						236		
D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			kW		13		
		PERd		%		10		
						1.0		
Tbiv (bivalent temperature)	COPd			kW		3.67		
		PERd		%		9.8		
						146.8		
Warm climate water outlet 35°C	CdH (Degradation heating)			kW		1.0		
		PERd		%		5.60		
						7.9		
D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			kW		224.0		
		PERd		%		4.95		
						9.8		
Tbiv (bivalent temperature)	COPd			kW		198.0		
		PERd		%		5		
						1.0		
D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			kW		7.60		
		PERd		%		6.1		
						304.0		

(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) |

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(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.

Technical specifications				ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.		kW	5.69 (2)		9.00 (2)				
	Max.		kW	10.18 (1)		10.91 (1)		12.12 (1)		
Power input	Heating	Min.	kW	0.88 (3)		0.95 (3)		1.05 (3)		
		Nom.	kW	1.22 (2)		1.80 (2)				
		Max.	kW	2.09 (3)		2.24 (3)		2.49 (3)		
	Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	
COP				4.67 (2)		5.00 (2)				
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM								
	Nominal ESP unit	Heating	kPa	111.2 (5)		97.4 (5)				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)			
		General			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
Supplier/Manufacturer details	Name and address			Daikin Europe N.V.						
	Name or trademark			Daikin Europe N.V.						
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
Water-to-water heat pump			No							
LW(A) Sound power level	Indoor		dB(A)	44.0						
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	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	0.021						
		Psb (Standby mode)	kW	0.021						
	Pto (Thermostat off)	kW	0.041							
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	935	1,547	935	1,547	935	1,547
		COPdhw			2.62	2.61	2.62	2.61	2.62	2.61



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Technical specifications			ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3			
Domestic hot water heating	Average climate	Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min			
		η_{wh} (water heating efficiency)	%	110	108	110	108	110	108		
		Qelec (Daily electricity consumption)	kWh	4.450	7.320	4.450	7.320	4.450	7.320		
		Reference hot water temperature	°C	52.5							
		Stand-by power input	W	34.2	49.2	34.2	49.2	34.2	49.2		
		Water heating energy efficiency class		A							
		Cold climate	Average climate	AEC (Annual electricity consumption)	kWh	1,091	1,814	1,091	1,814	1,091	1,814
				COPdhw		2.26	2.23	2.26	2.23	2.26	2.23
				Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
				η_{wh} (water heating efficiency)	%	94	92	94	92	94	92
Qelec (Daily electricity consumption)	kWh			5.170	8.560	5.170	8.560	5.170	8.560		
Reference hot water temperature	°C			52.5							
Stand-by power input	W			36.4	54.4	36.4	54.4	36.4	54.4		
Warm climate	Average climate	AEC (Annual electricity consumption)	kWh	843	1,388	843	1,388	843	1,388		
		COPdhw		2.90							
		Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
		η_{wh} (water heating efficiency)	%	122	121	122	121	122	121		
		Qelec (Daily electricity consumption)	kWh	4.020	6.570	4.020	6.570	4.020	6.570		
		Reference hot water temperature	°C	52.5							
		Stand-by power input	W	32.9	46.1	32.9	46.1	32.9	46.1		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,211						
			η_s (Seasonal space heating efficiency)	%	140						
			Prated at -10°C	kW	13						
			Qhe Annual energy consumption (GCV)	Gj	26						
			SCOP		3.58						
			Seasonal space heating eff. class		A++						
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd		2.47				
					Pdh	kW	11.2				
					PERd	%	98.8				
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd		3.56				
					Pdh	kW	6.9				
					PERd	%	142.4				
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd		4.44				
					Pdh	kW	6.9				

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Technical specifications				ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3	
Space heating 	Average climate	C Condition (7°CDB/6°CWB)	PERd %						177.6	
	water outlet 55°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.72
			Pdh kW							6.2
			PERd %							228.8
			Tol (temperature operating limit)	COPd						
		Pdh kW							12.2	
		PERd %							87.6	
		TOL °C							-10	
		WTOL °C							55	
		Rated heat output	Psup (at Tdesign -10°C)	kW						0.3
		Tbiv (bivalent temperature)	COPd							2.19
			Pdh kW							12.2
			PERd %							87.6
			Tbiv °C							-10
Cold climate water outlet 55°C	General	Annual energy consumption	kWh						9,654	
		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									2.74
	Pdh kW									7.5
	B Condition (2°CDB/1°CWB)	PERd %								109.6
		Cdh (Degradation heating)								1.0
		COPd								3.67
		Pdh kW							5.8	
		PERd %							146.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)								1.0
		COPd								4.69
		Pdh kW								5.6
	PERd %							187.6		
D Condition (12°CDB/11°CWB)	COPd								6.12	
	Pdh kW								6.2	
	PERd %								244.8	
Tol (temperature operating limit)	COPd								1.65	
	Pdh kW								10.6	
	PERd %								66.0	

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Technical specifications				ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3		
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C						-22		
	WTOL		°C						55		
	(bivalent temperature)	G Condition (-15°CDB/-)	COPd							2.17	
			Pdh	kW						10.3	
		PERd	%							86.8	
		Tbiv	COPd							1.90	
		Pdh	kW							11.0	
		PERd	%							76.0	
		Tbiv	°C							-18	
		Rated heat output	Psup (at Tdesign -22°C)	kW							1.9
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh						4,090
				ηs (Seasonal space heating efficiency)	%						160
	Prated at 2°C			kW							13
	Qhe Annual energy consumption (GCV)			Gj							15
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	COPd							1.0
				Pdh	kW						10.0
			PERd	%							98.0
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd							1.0
				Pdh	kW						7.9
			PERd	%							147.6
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	COPd							5.39
				Pdh	kW						5.9
			PERd	%							215.6
Tbiv (bivalent temperature)	COPd	Pdh	kW						3.27		
		PERd	%						9.9		
	Tbiv	°C							130.8		
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						5,726		
		ηs (Seasonal space heating efficiency)	%						177		
		Prated at -10°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							21	
		SCOP								4.51	
		Seasonal space heating eff. class								A+++	

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Technical specifications				ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3	
Space heating Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	COPd							3.12	
		Pdh	kW						11.1	
		PERd	%						124.8	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0
		COPd								4.44
		Pdh	kW							6.7
	C Condition (7°CDB/6°CWB)	PERd	%							177.6
		Cdh (Degradation heating)								1.0
		COPd								5.84
	D Condition (12°CDB/11°CWB)	Pdh	kW							5.7
		PERd	%							233.6
		Cdh (Degradation heating)								1.0
	Tol (temperature operating limit)	COPd								7.40
		Pdh	kW							6.0
		PERd	%							296.0
	Tbiv (bivalent temperature)	COPd								2.76
		Pdh	kW							11.1
		PERd	%							110.4
	Rated heat output	TOL	°C							-10
		WTOL	°C							35
		COPd								3.12
	Cold climate water outlet 35°C	General	Pdh	kW						11.1
			PERd	%						124.8
			Tbiv	°C						-7
	Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)	kW						1.4
			Annual energy consumption	kWh						7,417
			ηs (Seasonal space heating efficiency)	%						163
Prated at -22°C			kW						13	
Qhe Annual energy consumption (GCV)			Gj						27	
A Condition (-7°CDB/-8°CWB)		COPd								3.50
		Pdh	kW							8.0
		PERd	%							140.0
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)								1.0
		COPd								5.07
		Pdh	kW							4.9
C Condition (7°CDB/6°CWB)		PERd	%							202.8
		Cdh (Degradation heating)								1.0

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Technical specifications				ETVH16S18E6V + EPRA14DV3	ETVH16S23E6V + EPRA14DV3	ETVH16S18E6V + EPRA16DV3	ETVH16S23E6V + EPRA16DV3	ETVH16S18E6V + EPRA18DV3	ETVH16S23E6V + EPRA18DV3		
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd				6.10				
			Pdh	kW			5.3				
			PERd	%			244.0				
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				7.03				
			Pdh	kW			5.7				
		Tol (temperature operating limit)	Tol (temperature operating limit)	COPd				2.16			
				Pdh	kW			10.1			
				PERd	%			86.4			
				TOL	°C			-22			
	Warm climate water outlet 35°C	General	Annual energy consumption	Annual energy consumption	kWh			2,885			
				ηs (Seasonal space heating efficiency)	%			229			
				Prated at 2°C	kW			13			
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				3.67		
					Pdh	kW			9.8		
					PERd	%			146.8		
					Tbiv (bivalent temperature)	°C			-15		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				5.60				
			Pdh	kW			7.9				
			PERd	%			224.0				
Tbiv (bivalent temperature)			°C			5					
D Condition (12°CDB/11°CWB)			Cdh (Degradation heating)	COPd				4.95			
				Pdh	kW			9.8			
				PERd	%			198.0			
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	COPd				7.60				
			Pdh	kW			6.1				
			PERd	%			304.0				

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

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

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

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

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

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

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

Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.		kW	5.69 (2)			9.00 (2)		
	Max.		kW	10.18 (1)		10.91 (1)		12.12 (1)	
Power input	Heating	Min.	kW	0.88 (3)		0.95 (3)		1.05 (3)	
		Nom.	kW	1.22 (2)			1.80 (2)		
		Max.	kW	2.09 (3)		2.24 (3)		2.49 (3)	
	Domestic hot water from 10°C	Nom.	kWh	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)
Heat up time from 10°C to 50°C			hr	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP				4.67 (2)		5.00 (2)			

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Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3		
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM									
	Nominal ESP unit	Heating	kPa	111.2 (5)		97.4 (5)					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)				
General	Supplier/Manufacturer details	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium									
	Product description	Name and address		Daikin Europe N.V.							
		Name or trademark		Daikin Europe N.V.							
		Air-to-water heat pump		Yes							
		Brine-to-water heat pump		No							
		Heat pump combination heater		Yes							
		Low-temperature heat pump		No							
	LW(A) Sound power level	Supplementary heater integrated		Yes							
Water-to-water heat pump		No									
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		
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	0.021						
		Psb (Standby mode)		kW	0.021						
Domestic hot water heating	General	Pto (Thermostat off)		kW	0.041						
		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	935	1,547	935	1,547	935	1,547	
		COPdhw			2.62	2.61	2.62	2.61	2.62	2.61	
Domestic hot water heating	Average climate	Heat up time			1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		η _{wh} (water heating efficiency)		%	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)		kWh	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature		°C	52.5						
		Stand-by power input		W	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class			A						
	Cold climate	AEC (Annual electricity consumption)		kWh	1,091	1,814	1,091	1,814	1,091	1,814	
		COPdhw			2.26	2.23	2.26	2.23	2.26	2.23	
		Heat up time			1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min	
		η _{wh} (water heating efficiency)		%	94	92	94	92	94	92	
Qelec (Daily electricity consumption)		kWh	5.170	8.560	5.170	8.560	5.170	8.560			
Warm climate	Reference hot water temperature		°C	52.5							
	Stand-by power input		W	36.4	54.4	36.4	54.4	36.4	54.4		
	AEC (Annual electricity consumption)		kWh	843	1,388	843	1,388	843	1,388		
	COPdhw			2.90							
	Heat up time			1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	η _{wh} (water heating efficiency)		%	122	121	122	121	122	121		
	Qelec (Daily electricity consumption)		kWh	4.020	6.570	4.020	6.570	4.020	6.570		
	Reference hot water temperature		°C	52.5							
	Stand-by power input		W	32.9	46.1	32.9	46.1	32.9	46.1		

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Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3						
Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,211					
			η_s (Seasonal space heating efficiency)	%						140					
			Prated at -10°C	kW						13					
			Qhe Annual energy consumption (GCV)	Gj						26					
			SCOP							3.58					
			Seasonal space heating eff. class							A++					
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0				
					COPd							2.47			
					Pdh	kW						11.2			
			B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)							1.0				
					COPd							3.56			
					Pdh	kW						6.9			
			C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)							1.0				
					COPd							4.44			
					Pdh	kW						6.9			
			Space heating	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	PERd	%						177.6		
						D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
								COPd							5.72
								Pdh	kW						6.2
Tol (temperature operating limit)	PERd	%						228.8							
		TOL				°C						2.19			
		WTOL				°C						12.2			
Rated heat output	Psup (at Tdesign -10°C)	kW						87.6							
		Tbiv (bivalent temperature)				°C						-10			
		Tbiv (bivalent temperature)				°C						55			
Cold climate water outlet 55°C	General	Annual energy consumption				kWh						0.3			
						η_s (Seasonal space heating efficiency)	%						2.19		
						Prated at -22°C	kW						12.2		
						Qhe Annual energy consumption (GCV)	Gj						87.6		
						SCOP							-10		
						A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							0.3	
								COPd							2.19
								Pdh	kW						12.2
						B Condition (2°CDB/-1°CWB)	Cdh (Degradation heating)							12.2	
			COPd							87.6					
			Pdh	kW						-10					
			C Condition (7°CDB/-6°CWB)	Cdh (Degradation heating)							55				
					COPd							0.3			
					Pdh	kW						2.19			
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							12.2				
					COPd							87.6			
					Pdh	kW						-10			
			Tol (temperature operating limit)	PERd	%						55				
					TOL	°C						0.3			
WTOL	°C						2.19								

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Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3		
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	TOL	°C						-22		
	WTOL		°C						55		
	G Condition (-15°CDB/-)	COPd								2.17	
		Pdh		kW						10.3	
		PERd		%						86.8	
		Tbiv								1.90	
		COPd								1.90	
		Pdh		kW						11.0	
		PERd		%						76.0	
		Tbiv		°C						-18	
		Rated heat output	Psup (at Tdesign -22°C)		kW						1.9
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh						4,090
			ηs (Seasonal space heating efficiency)	%						160	
			Prated at 2°C	kW						13	
			Qhe Annual energy consumption (GCV)	Gj						15	
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)								1.0
			COPd								2.45
			Pdh		kW						10.0
	C Condition (7°CDB/6°CWB)		PERd		%						98.0
			Cdh (Degradation heating)								1.0
			COPd								3.69
	D Condition (12°CDB/11°CWB)	Pdh		kW						7.9	
		PERd		%						147.6	
		Cdh (Degradation heating)								1.0	
	Tbiv (bivalent temperature)	COPd								5.39	
		Pdh		kW						5.9	
		PERd		%						215.6	
Water outlet 45°C	Tbiv		°C						3.27		
	Pdh		kW						9.9		
	PERd		%						130.8		
Average climate water outlet 35°C	H Condition (2°C/-)	Max.	kW		11.1			11.8			
		General	Annual energy consumption	kWh						5,726	
			ηs (Seasonal space heating efficiency)	%						177	
			Prated at -10°C	kW						13	
			Qhe Annual energy consumption (GCV)	Gj						21	
			SCOP							4.51	
	Seasonal space heating eff. class								A+++		

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Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3	
Space heating Average climate water out- let 35°C	A Con- dition (-7°C CD- B/-8°C CWB)	COPd							3.12	
		Pdh	kW						11.1	
		PERd	%							124.8
	B Con- dition (2°C CD- B/1°C CWB)	Cdh (Degradation heating)								1.0
		COPd								4.44
		Pdh	kW							6.7
	C Con- dition (7°C CD- B/6°C CWB)	PERd	%							177.6
		Cdh (Degradation heating)								1.0
		COPd								5.84
	D Con- dition (12°C CD- B/11°C CWB)	Pdh	kW							5.7
		PERd	%							233.6
		Cdh (Degradation heating)								1.0
	Tol (tem- perature operating limit)	COPd								7.40
		Pdh	kW							6.0
		PERd	%							296.0
	Tbiv (bivalent tempera- ture)	TOL	°C							2.76
		WTOL	°C							11.1
		COPd								110.4
	Rated heat output	Pdh	kW							35
		PERd	%							3.12
		Tbiv	°C							11.1
	Cold climate water out- let 35°C	General	Psup (at Tdesign -10°C)	kW						1.4
			Annual energy consumption	kWh						7,417
ηs (Seasonal space heating efficiency)			%							163
Prated at -22°C			kW							13
Qhe Annual energy consumption (GCV)			Gj							27
A Con- dition (-7°C CD- B/-8°C CWB)		COPd								3.50
		Pdh	kW							8.0
		PERd	%							140.0
B Con- dition (2°C CD- B/1°C CWB)		Cdh (Degradation heating)								1.0
		COPd								5.07
	Pdh	kW							4.9	
C Condition (7°C CDB/6°C CWB)	PERd	%							202.8	
	Cdh (Degradation heating)								1.0	

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Technical specifications				ETVH16S18E9W + EPRA14DV3	ETVH16S23E9W + EPRA14DV3	ETVH16S18E9W + EPRA16DV3	ETVH16S23E9W + EPRA16DV3	ETVH16S18E9W + EPRA18DV3	ETVH16S23E9W + EPRA18DV3			
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	COPd						6.10			
			Pdh	kW					5.3			
			PERd	%						244.0		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0		
			COPd							7.03		
			Pdh	kW						5.7		
		Tol (temperature operating limit)	COPd	Pdh	kW					281.2		
				PERd	%					2.16		
			TOL	°C							10.1	
				°C							86.4	
	Warm climate water outlet 35°C	G Condition (-15°CDB/-)	COPd							2.62		
			Pdh	kW						10.7		
			PERd	%						104.8		
		Tbiv (bivalent temperature)	COPd	Pdh	kW						2.62	
				PERd	%						10.7	
			Tbiv	°C							104.8	
		Rated heat output	Psup (at Tdesign -22°C)	kW							-15	
											2.4	
			General	Annual energy consumption	kWh							2,885
				ηs (Seasonal space heating efficiency)	%							229
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd							1.0			
		Pdh	kW						3.67			
		PERd	%						9.8			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd							146.8		
			Pdh	kW						1.0		
		PERd	%						5.60			
	Tbiv (bivalent temperature)	COPd	Pdh	kW						7.9		
			PERd	%						224.0		
		Tbiv	°C								4.95	
			°C								9.8	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	Pdh	kW						198.0			
		PERd	%						5			
	Tbiv	°C								1.0		
		°C								7.60		
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	COPd						6.1			
			Pdh	kW						304.0		
			PERd	%								

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

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

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

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

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

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

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

Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.		kW	5.69 (2)			9.00 (2)		
	Max.		kW	10.18 (1)		10.91 (1)		12.12 (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	0.88 (5)		0.95 (5)		1.05 (5)	
		Nom.	kW	1.22 (2)			1.80 (2)		
		Max.	kW	2.09 (5)		2.24 (5)		2.49 (5)	
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)		2.80 (3) / 2.93 (4)		3.05 (3) / 3.31 (4)	
		Domestic hot water from 10°C	Nom.	kWh	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	2.57 (6)
	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
COP				4.67 (2)		5.00 (2)			

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Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3	
EER				4.13 (3) / 2.70 (4)		4.11 (3) / 2.69 (4)		4.09 (3) / 2.68 (4)		
Pump	Type	Grundfos UPMXL GEO 25-125 130 PWM								
	Nominal ESP unit	Heating	kPa	111.2 (7)		97.4 (7)				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)			
General	Supplier/Manufacturer details	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium								
		Daikin Europe N.V.								
	Product description	Name and address								
		Name or trademark								
		Air-to-water heat pump		Yes						
		Brine-to-water heat pump		No						
		Heat pump combination heater		Yes						
LW(A) Sound power level	Indoor	dB(A)	44.0							
	Outdoor	dB(A)	54.0							
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	3,918				3,960		
		Other	Capacity control	Inverter						
		Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.021						
		Psb (Standby mode)	kW	0.021						
Domestic hot water heating	General	Pto (Thermostat off)	kW	0.041						
		Declared load profile		L	XL	L	XL	L	XL	
		Integrated supplementary	Psup	kW	6.0					
		Integrated supplementary	Type of energy input		Electrical					
Domestic hot water heating climate	Average climate	AEC (Annual electricity consumption)	kWh	935	1,547	935	1,547	935	1,547	
		COPdhw		2.62	2.61	2.62	2.61	2.62	2.61	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)	%	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	kWh	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,091	1,814	1,091	1,814	1,091	1,814
			COPdhw		2.26	2.23	2.26	2.23	2.26	2.23
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			ηwh (water heating efficiency)	%	94	92	94	92	94	92
			Qelec (Daily electricity consumption)	kWh	5.170	8.560	5.170	8.560	5.170	8.560
			Reference hot water temperature	°C	52.5					
		Warm climate	Stand-by power input	W	36.4	54.4	36.4	54.4	36.4	54.4
			AEC (Annual electricity consumption)	kWh	843	1,388	843	1,388	843	1,388
			COPdhw		2.90					
Heat up time			1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
ηwh (water heating efficiency)	%		122	121	122	121	122	121		
Qelec (Daily electricity consumption)	kWh		4.020	6.570	4.020	6.570	4.020	6.570		
Reference hot water temperature	°C		52.5							
Stand-by power input	W		32.9	46.1	32.9	46.1	32.9	46.1		

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Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh				7,134				
		η_s (Seasonal space heating efficiency)	%				142				
		Prated at -10°C	kW				13				
		Qhe Annual energy consumption (GCV)	Gj				26				
		SCOP					3.62				
		Seasonal space heating eff. class					A++				
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0				
			COPd				2.47				
			Pdh	kW			11.2				
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0				
			COPd				3.56				
			Pdh	kW			6.9				
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0				
			COPd				4.44				
			Pdh	kW			6.9				
Space heating Average climate water outlet 55°C	General	PERd	%				177.6				
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0				
			COPd				5.72				
			Pdh	kW			6.2				
		Tol (temperature operating limit)	PERd	%			228.8				
			COPd				2.19				
			Pdh	kW			12.2				
		Rated heat output (bivalent temperature)	PERd	%			87.6				
			TOL	°C			-10				
			WTOL	°C			55				
		Cold climate water outlet 55°C	Tbiv	°C			-10				
			Psup (at Tdesign -10°C)	kW			0.3				
			Tbiv	°C			2.19				
		Space heating Average climate water outlet 55°C	General	Pdh	kW				12.2		
				PERd	%				87.6		
A Condition (-7°CDB/-8°CWB)	Tbiv			°C			-10				
	COPd						9,609				
	Pdh			kW			125				
B Condition (2°CDB/1°CWB)	Prated at -22°C			kW			13				
	Qhe Annual energy consumption (GCV)			Gj			35				
	COPd						1.0				
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						2.74				
	COPd						7.5				
	Pdh			kW			109.6				
D Condition (12°CDB/11°CWB)	PERd			%			1.0				
	Cdh (Degradation heating)						1.0				
	COPd						3.67				
Tol (temperature operating limit)	Pdh			kW			5.8				
	PERd	%			146.8						
	COPd				1.0						
Rated heat output (bivalent temperature)	Cdh (Degradation heating)				4.69						
	COPd				5.6						
	Pdh	kW			187.6						
Cold climate water outlet 55°C	PERd	%			6.12						
	COPd				6.2						
	Pdh	kW			244.8						

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Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3		
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	COPd									
		Pdh	kW				1.65				
		PERd	%					10.6			
		TOL	°C					66.0			
		WTOL	°C					-22			
	G Condition (-15°CDB/-)	COPd						2.17			
		Pdh	kW					10.3			
		PERd	%					86.8			
		Tbiv	COPd					1.90			
		Pdh	kW					11.0			
	(bivalent temperature)	PERd	%					76.0			
		Tbiv	°C					-18			
		Rated heat output	Psup (at Tdesign -22°C)	kW				1.9			
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh				3,997			
			ηs (Seasonal space heating efficiency)	%				164			
			Prated at 2°C	kW					13		
			Qhe Annual energy consumption (GCV)	Gj					14		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)						1.0		
			COPd						2.45		
			Pdh	kW					10.0		
		C Condition (7°CDB/6°CWB)	PERd	%					98.0		
			Cdh (Degradation heating)						1.0		
			COPd						3.69		
		D Condition (12°CDB/11°CWB)	Pdh	kW					7.9		
			PERd	%					147.6		
			Cdh (Degradation heating)						1.0		
		Tbiv (bivalent temperature)	COPd						5.39		
Pdh			kW					5.9			
PERd	%						215.6				
Water outlet 45°C (2°C/-)	Tbiv	°C					3.27				
	Pdh	kW					9.9				
	PERd	%					130.8				
Average climate water outlet 35°C	General	Tbiv	°C				5				
		Max.	kW		11.1			11.8			
		Annual energy consumption	kWh					5,649			
		ηs (Seasonal space heating efficiency)	%					180			
		Prated at -10°C	kW				13				

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Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3	
Space heating 	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	20						
			SCOP	4.57						
			Seasonal space heating eff. class	A+++						
			A Condition (-7°CDB/-8°CWB)	COPd	3.12					
				Pdh kW	11.1					
				PERd %	124.8					
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
				COPd	4.44					
				Pdh kW	6.7					
			C Condition (7°CDB/6°CWB)	PERd %	177.6					
				Cdh (Degradation heating)	1.0					
				COPd	5.84					
			D Condition (12°CDB/11°CWB)	Pdh kW	5.7					
				PERd %	233.6					
				Cdh (Degradation heating)	1.0					
			Tol (temperature operating limit)	COPd	7.40					
				Pdh kW	6.0					
				PERd %	296.0					
			Tbiv (bivalent temperature)	TOL °C	2.76					
				WTOL °C	11.1					
				Tbiv °C	110.4					
			Rated heat output	PERd %	-10					
				COPd	35					
Pdh kW	3.12									
Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)	1.4							
		Annual energy consumption kWh	7,370							
		ηs (Seasonal space heating efficiency) %	164							
		Prated at -22°C kW	13							
		Qhe Annual energy consumption (GCV) GJ	27							
		A Condition (-7°CDB/-8°CWB)	COPd	3.50						
			Pdh kW	8.0						
			PERd %	140.0						
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	5.07						

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Technical specifications				ETVX16S18E6V + EPRA14DV3	ETVX16S23E6V + EPRA14DV3	ETVX16S18E6V + EPRA16DV3	ETVX16S23E6V + EPRA16DV3	ETVX16S18E6V + EPRA18DV3	ETVX16S23E6V + EPRA18DV3	
Space heating	Cold climate water outlet 35°C	B Condition (2°CDB/1°CWB)	Pdh	kW					4.9	
			PERd	%					202.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							6.10
			Pdh	kW						5.3
			PERd	%						244.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.03
			Pdh	kW						5.7
			PERd	%						281.2
		Tol (temperature operating limit)	COPd							2.16
			Pdh	kW						10.1
	PERd		%						86.4	
	TOL		°C						-22	
	Warm climate water outlet 35°C	General	Annual energy consumption		kWh					2,792
			η _s (Seasonal space heating efficiency)	%						236
			Prated at 2°C	kW						13
			Q _{he} Annual energy consumption (GCV)	Gj						10
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							3.67
			Pdh	kW						9.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.60
			Pdh	kW						7.9
Tbiv (bivalent temperature)		COPd							224.0	
		Pdh	kW						4.95	
	PERd	%						9.8		
Space heating	Warm climate water outlet 35°C	Tbiv (bivalent temperature)	PERd	%					198.0	
			Tbiv	°C					5	
			Cdh (Degradation heating)							1.0
	D Condition (12°CDB/11°CWB)	COPd							7.60	
		Pdh	kW						6.1	
		PERd	%						304.0	

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

Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Min.		kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.		kW	5.69 (2)		9.00 (2)				
	Max.		kW	10.18 (1)		10.91 (1)		12.12 (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	0.88 (5)		0.95 (5)		1.05 (5)		
		Nom.	kW	1.22 (2)		1.80 (2)				
		Max.	kW	2.09 (5)		2.24 (5)		2.49 (5)		
	Cooling	Nom.	kW	2.55 (3) / 2.56 (4)		2.80 (3) / 2.93 (4)		3.05 (3) / 3.31 (4)		
		Domestic hot water from 10°C	Nom.	kWh	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
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				4.67 (2)		5.00 (2)				
EER				4.13 (3) / 2.70 (4)		4.11 (3) / 2.69 (4)		4.09 (3) / 2.68 (4)		
Pump		Type	Grundfos UPMXL GEO 25-125 130 PWM							
		Nominal Heating ESP 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							
			Water-to-water heat pump No							
		LW(A) Sound power level	Indoor	dB(A)		44.0				
		LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)		54.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank		Name	Stainless steel domestic hot water tank 180 l		Stainless steel domestic hot water tank 230 L		Stainless steel domestic hot water tank 180 l		Stainless steel domestic hot water tank 230 L	
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		0.021				
			Psb (Standby mode)	kW		0.021				
			Pto (Thermostat off)	kW		0.041				
Domestic hot water heating		General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general		Integrated supplementary	Psup	kW		9.0				
Space heating general		Integrated supplementary	Type of energy input	Electrical						

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	935	1,547	935	1,547	935	1,547	
		COPdhw		2.62	2.61	2.62	2.61	2.62	2.61	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		η _{wh} (water heating efficiency)	%	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	kWh	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,091	1,814	1,091	1,814	1,091	1,814
			COPdhw		2.26	2.23	2.26	2.23	2.26	2.23
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			η _{wh} (water heating efficiency)	%	94	92	94	92	94	92
			Qelec (Daily electricity consumption)	kWh	5.170	8.560	5.170	8.560	5.170	8.560
Reference hot water temperature	°C		52.5							
Warm climate	Stand-by power input	W	36.4	54.4	36.4	54.4	36.4	54.4		
	AEC (Annual electricity consumption)	kWh	843	1,388	843	1,388	843	1,388		
	COPdhw		2.90							
	Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	η _{wh} (water heating efficiency)	%	122	121	122	121	122	121		
	Qelec (Daily electricity consumption)	kWh	4.020	6.570	4.020	6.570	4.020	6.570		
	Reference hot water temperature	°C	52.5							
	Stand-by power input	W	32.9	46.1	32.9	46.1	32.9	46.1		
	Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,134				
				η _s (Seasonal space heating efficiency)	%	142				
A Condition (-7°CDB/-8°CWB)			Prated at -10°C	kW	13					
			Qhe Annual energy consumption (GCV)	Gj	26					
			SCOP		3.62					
			Seasonal space heating eff. class		A++					
			Cdh (Degradation heating)		1.0					
			COPd		2.47					
B Condition (2°CDB/1°CWB)			Pdh	kW	11.2					
			PERd	%	98.8					
			Cdh (Degradation heating)		1.0					
			COPd		3.56					
			Pdh	kW	6.9					
			PERd	%	142.4					

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0	
			COPd						4.44	
			Pdh kW						6.9	
				PERd %					177.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0	
			COPd						5.72	
			Pdh kW						6.2	
				PERd %					228.8	
		Tol (temperature operating limit)		COPd						2.19
			Pdh kW						12.2	
			PERd %						87.6	
			TOL °C						-10	
			WTOL °C						55	
	Rated heat output		Psup (at Tdesign -10°C)	kW						0.3
		Tbiv (bivalent temperature)		COPd						2.19
				Pdh kW						12.2
				PERd %						87.6
			Tbiv °C							-10
Cold climate water outlet 55°C		General	Annual energy consumption	kWh						9,609
	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		
	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		

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3		
Space heating Cold climate water outlet 55°C	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	Tbiv	°C							-18	
		Psup (at Tdesign -22°C)	kW							1.9	
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh						3,997	
			ηs (Seasonal space heating efficiency)	%						164	
			Prated at 2°C	kW							13
			Qhe Annual energy consumption (GCV)	Gj							14
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0
			COPd								2.45
			Pdh	kW							10.0
		C Condition (7°CDB/6°CWB)	PERd	%							98.0
			Cdh (Degradation heating)								1.0
			COPd								3.69
		D Condition (12°CDB/11°CWB)	Pdh	kW							7.9
			PERd	%							147.6
			Cdh (Degradation heating)								1.0
		Tbiv (bivalent temperature)	COPd								5.39
Pdh			kW							5.9	
PERd	%								215.6		
Water outlet 45°C (-2°C/-)	Tbiv	°C							3.27		
	PERd	%							9.9		
Average climate water outlet 35°C	General	PERd	%						130.8		
		Tbiv	°C						5		
		Max.	kW		11.1			11.8			
Average climate water outlet 35°C	General	Annual energy consumption	kWh						5,649		
		ηs (Seasonal space heating efficiency)	%						180		
		Prated at -10°C	kW							13	

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
Space heating 	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	20						
			SCOP	4.57						
			Seasonal space heating eff. class	A+++						
			A Condition (-7°CDB/-8°CWB)	COPd	3.12					
				Pdh kW	11.1					
				PERd %	124.8					
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
				COPd	4.44					
				Pdh kW	6.7					
			C Condition (7°CDB/6°CWB)	PERd %	177.6					
				Cdh (Degradation heating)	1.0					
				COPd	5.84					
			D Condition (12°CDB/11°CWB)	Pdh kW	5.7					
				PERd %	233.6					
				Cdh (Degradation heating)	1.0					
			Tol (temperature operating limit)	COPd	7.40					
				Pdh kW	6.0					
				PERd %	296.0					
			Tbiv (bivalent temperature)	TOL °C	2.76					
				WTOL °C	11.1					
				Tbiv °C	110.4					
			Rated heat output	PERd %	-10					
				PERd %	35					
Tbiv °C	3.12									
Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C) kW	1.4							
		Annual energy consumption kWh	7,370							
		ηs (Seasonal space heating efficiency) %	164							
		Prated at -22°C kW	13							
		Qhe Annual energy consumption (GCV) GJ	27							
		A Condition (-7°CDB/-8°CWB)	COPd	3.50						
			Pdh kW	8.0						
			PERd %	140.0						
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	5.07						

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Technical specifications				ETVX16S18E9W + EPRA14DV3	ETVX16S23E9W + EPRA14DV3	ETVX16S18E9W + EPRA16DV3	ETVX16S23E9W + EPRA16DV3	ETVX16S18E9W + EPRA18DV3	ETVX16S23E9W + EPRA18DV3	
Space heating Cold climate water outlet 35°C	B Condition (2°CDB/1°CWB)	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	
	D Condition (12°CDB/11°CWB)	PERd	%						244.0	
		Cdh (Degradation heating)							1.0	
		COPd							7.03	
	Tol (temperature operating limit)	Pdh	kW						5.7	
		PERd	%						281.2	
		COPd							2.16	
	G Condition (-15°CDB/-)	Pdh	kW						10.1	
		PERd	%						86.4	
		TOL	°C						-22	
	Tbiv (bivalent temperature)	WTOL	°C						35	
		COPd							2.62	
		Pdh	kW						10.7	
	Rated heat output	PERd	%						104.8	
		COPd							2.62	
		Pdh	kW						10.7	
	Warm climate water outlet 35°C	General	PERd	%					104.8	
			Tbiv	°C					-15	
			Psup (at Tdesign -22°C)	kW						2.4
	Annual energy consumption	ns (Seasonal space heating efficiency)	Annual energy consumption	kWh						2,792
			Prated at 2°C	kW						13
			Qhe Annual energy consumption (GCV)	Gj						10
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
COPd								3.67		
Pdh		kW						9.8		
C Condition (7°CDB/6°CWB)	PERd	%						146.8		
	Cdh (Degradation heating)							1.0		
	COPd							5.60		
Tbiv (bivalent temperature)	Pdh	kW						7.9		
	PERd	%						224.0		
	COPd							4.95		
Space heating Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW						9.8	
		PERd	%						198.0	
		Tbiv	°C						5	
Cdh (Degradation heating)	Cdh (Degradation heating)							1.0		
	COPd							7.60		
	Pdh	kW						6.1		
PERd	PERd	%						304.0		

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

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

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

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

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

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

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

Technical specifications				ETVZ16S18E6V + EPRA14DAV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.	kW	3.70 (1)		3.96 (1)		4.40 (1)		
	Nom.	kW	5.69 (2)		9.00 (2)				
	Max.	kW	10.18 (1)		10.91 (1)		12.12 (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	0.88 (5)		0.95 (5)		1.05 (5)	
		Nom.	kW	1.22 (2)		1.80 (2)			
		Max.	kW	2.09 (5)		2.24 (5)		2.49 (5)	
Domestic hot water from 10°C	Nom.	kWh	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	2.57 (6)	2.85 (6)	

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Technical specifications				ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3	
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				4.67 (2)		5.00 (2)				
Pump		Type		Grundfos UPML GEO 25-105 130 PWM						
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (7)			84.1 (7)			
Pump Main Zone	Nominal ESP unit	Heating	kPa	90.2 (7)			80.0 (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	Indoor		dB(A)	44.0						
	Outdoor		dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name			Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Air to water unit	Rated airflow (outdoor)		m ³ /h	3,918			3,960		
		Other	Capacity control			Inverter				
	Pck (Crankcase heater mode)		kW	0.000						
	Poff (Off mode)		kW	0.021						
	Psb (Standby mode)		kW	0.021						
Pto (Thermostat off)		kW	0.041							
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					

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Technical specifications				ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3	
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	935	1,547	935	1,547	935	1,547	
		COPdhw		2.62	2.61	2.62	2.61	2.62	2.61	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		ηwh (water heating efficiency)	%	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	kWh	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,091	1,814	1,091	1,814	1,091	1,814
			COPdhw		2.26	2.23	2.26	2.23	2.26	2.23
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			ηwh (water heating efficiency)	%	94	92	94	92	94	92
			Qelec (Daily electricity consumption)	kWh	5.170	8.560	5.170	8.560	5.170	8.560
			Reference hot water temperature	°C	52.5					
Stand-by power input	W		36.4	54.4	36.4	54.4	36.4	54.4		
Warm climate	AEC (Annual electricity consumption)	kWh	843	1,388	843	1,388	843	1,388		
	COPdhw		2.90							
	Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	ηwh (water heating efficiency)	%	122	121	122	121	122	121		
	Qelec (Daily electricity consumption)	kWh	4.020	6.570	4.020	6.570	4.020	6.570		
	Reference hot water temperature	°C	52.5							
	Stand-by power input	W	32.9	46.1	32.9	46.1	32.9	46.1		
	Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,211				
ηs (Seasonal space heating efficiency)				%	140					
Prated at -10°C				kW	13					
Qhe Annual energy consumption (GCV)				Gj	26					
SCOP					3.58					
Seasonal space heating eff. class					A++					
A Condition (-7°CDB/-8°CWB)			Cdh (Degradation heating)		1.0					
			COPd		2.47					
			Pdh	kW	11.2					
B Condition (2°CDB/1°CWB)			PERd	%	98.8					
			Cdh (Degradation heating)		1.0					
			COPd		3.56					
C Condition (7°CDB/6°CWB)			Pdh	kW	6.9					
			PERd	%	142.4					
			Cdh (Degradation heating)		1.0					

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Technical specifications				ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3				
Space heating 	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	COPd					4.44					
			Pdh	kW				6.9					
			PERd	%				177.6					
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)					1.0					
			COPd					5.72					
			Pdh	kW				6.2					
		Tol (temperature operating limit)			PERd	%			228.8				
					COPd				2.19				
					Pdh	kW			12.2				
					PERd	%			87.6				
	Cold climate water outlet 55°C	General		TOL	°C			-10					
				WTOL	°C			55					
				Rated heat output	Psup (at Tdesign -10°C)	kW				0.3			
				Tbiv (bivalent temperature)	COPd					2.19			
					Pdh	kW				12.2			
					PERd	%				87.6			
				A Condition (-7°CDB/-8°CWB)			Tbiv	°C			-10		
							Annual energy consumption	kWh			9,654		
							ηs (Seasonal space heating efficiency)	%				125	
							Prated at -22°C	kW				13	
Qhe Annual energy consumption (GCV)	Gj							35					
Cdh (Degradation heating)								1.0					
COPd								2.74					
B Condition (2°CDB/1°CWB)			Pdh	kW			7.5						
			PERd	%			109.6						
			Cdh (Degradation heating)					1.0					
C Condition (7°CDB/6°CWB)			COPd				3.67						
			Pdh	kW			5.8						
			PERd	%			146.8						
D Condition (12°CDB/11°CWB)			Cdh (Degradation heating)				1.0						
			COPd				4.69						
			Pdh	kW			5.6						
Tol (temperature operating limit)			PERd	%			187.6						
			COPd				6.12						
			Pdh	kW			6.2						
			PERd	%			244.8						
			COPd				1.65						

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Technical specifications				ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3				
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	Pdh PERd TOL WTOL	kW %									
		G Condition (-15°CDB/-)	COPd Pdh PERd	kW %						10.6 66.0 -22 55 2.17 10.3 86.8			
		Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %							1.90 11.0 76.0 -18		
		Rated heat output	Psup (at Tdesign -22°C)	kW							1.9		
		Warm climate water outlet 55°C	General	Annual energy consumption	kWh							4,090	
				ηs (Seasonal space heating efficiency)	%							160	
				Prated at 2°C	kW								13
				Qhe Annual energy consumption (GCV)	Gj								15
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)									1.0
				COPd									2.45
	Pdh PERd			kW %								10.0 98.0	
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)									1.0	
			COPd									3.69	
			Pdh PERd	kW %								7.9 147.6	
	D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)									1.0	
			COPd									5.39	
			Pdh PERd	kW %								5.9 215.6	
			Tbiv (bivalent temperature)	COPd Pdh PERd Tbiv	kW %							3.27 9.9 130.8 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							5,726	
				ηs (Seasonal space heating efficiency)	%							177	
		Prated at -10°C		kW								13	
		Qhe Annual energy consumption (GCV)		Gj								21	

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Technical specifications				ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3
Space heating 	Average climate water outlet 35°C	General	SCOP				4.51		
			Seasonal space heating eff. class				A+++		
		A Condition (-7°CDB/-8°CWB)	COPd				3.12		
			Pdh	kW			11.1		
			PERd	%			124.8		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.44		
			Pdh	kW			6.7		
			PERd	%			177.6		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0		
			COPd				5.84		
			Pdh	kW			5.7		
			PERd	%			233.6		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0		
			COPd				7.40		
			Pdh	kW			6.0		
			PERd	%			296.0		
		Tol (temperature operating limit)	COPd				2.76		
			Pdh	kW			11.1		
			PERd	%			110.4		
	TOL	°C			-10				
	WTOL	°C			35				
Tbiv (bivalent temperature)	COPd				3.12				
	Pdh	kW			11.1				
	PERd	%			124.8				
	Tbiv	°C			-7				
Rated heat output	Psup (at Tdesign -10°C)	kW			1.4				
Cold climate water outlet 35°C	General	Annual energy consumption	kWh				7,417		
		ηs (Seasonal space heating efficiency)	%				163		
		Prated at -22°C	kW				13		
		Qhe Annual energy consumption (GCV)	Gj				27		
		A Condition (-7°CDB/-8°CWB)	COPd				3.50		
			Pdh	kW			8.0		
			PERd	%			140.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
			COPd				5.07		
			Pdh	kW			4.9		

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Technical specifications					ETVZ16S18E6V + EPRA14DV3	ETVZ16S23E6V + EPRA14DV3	ETVZ16S18E6V + EPRA16DV3	ETVZ16S23E6V + EPRA16DV3	ETVZ16S18E6V + EPRA18DV3	ETVZ16S23E6V + EPRA18DV3
Space heating Cold climate water outlet 35°C	B Condition (2°CDB/1°CWB)	PERd	%							202.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							
	COPd									6.10
	Pdh		kW							5.3
	PERd		%							244.0
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)								1.0
		COPd								7.03
		Pdh	kW							5.7
		PERd	%							281.2
	Tol (temperature operating limit)	COPd								2.16
		Pdh	kW							10.1
		PERd	%							86.4
		TOL	°C							-22
	G Condition (-15°CDB/-)	WTOL	°C							35
		COPd								2.62
		Pdh	kW							10.7
		PERd	%							104.8
	Tbiv (bivalent temperature)	Tbiv	°C							2.62
		Pdh	kW							10.7
		PERd	%							104.8
		Tbiv	°C							-15
	Rated heat output	Rated heat output	kW							2.4
		General	Annual energy consumption	kWh						
η _s (Seasonal space heating efficiency)			%							229
Prated at 2°C			kW							13
Q _{he} Annual energy consumption (GCV)	Gj								10	
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0	
	COPd								3.67	
	Pdh	kW							9.8	
	PERd	%							146.8	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)								1.0	
	COPd								5.60	
	Pdh	kW							7.9	
	PERd	%							224.0	
Tbiv (bivalent temperature)	Tbiv	°C							4.95	
	Pdh	kW							9.8	
	PERd	%							198.0	
	Tbiv (bivalent temperature)	Tbiv	°C						5	
Space heating Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
		COPd							7.60	
		Pdh	kW						6.1	
		PERd	%						304.0	

(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				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.	kW		3.70 (1)		3.96 (1)		4.40 (1)	
	Nom.	kW		5.69 (2)			9.00 (2)		
	Max.	kW		10.18 (1)		10.91 (1)		12.12 (1)	
Power input	Heating	Min.	kW	0.88 (3)		0.95 (3)		1.05 (3)	
		Nom.	kW	1.22 (2)			1.80 (2)		
		Max.	kW	2.09 (3)		2.24 (3)		2.49 (3)	
Domestic hot water from 10°C	Nom.	kWh		2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)	2.57 (4)	2.85 (4)

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Technical specifications				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3
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				4.67 (2)		5.00 (2)			
Pump		Type		Grundfos UPML GEO 25-105 130 PWM					
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (5)			84.1 (5)		
Pump Main Zone	Nominal ESP unit	Heating	kPa	90.2 (5)			80.0 (5)		
Water side Heat exchanger	Water flow rate	Heating	Nom. l/min	16.3 (2)			25.8 (2)		
General		Supplier/Manufacturer details	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
			Name or trademark	Daikin Europe N.V.					
		Product description	Air-to-water heat pump	Yes					
			Brine-to-water heat pump	No					
			Heat pump combination heater	Yes					
			Low-temperature heat pump	No					
			Supplementary heater integrated	Yes					
			Water-to-water heat pump	No					
		LW(A) Sound power level	Indoor	dB(A)			44.0		
		LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)			54.0		
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Tank		Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	3,918				3,960	
		Other	Capacity control	Inverter					
			Pck (Crankcase heater mode)	0.000					
			Poff (Off mode)	0.021					
			Psb (Standby mode)	0.021					
			Pto (Thermostat off)	0.041					
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	935	1,547	935	1,547	935	1,547

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Technical specifications			ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3	
Domestic hot water heating 	Average climate	COPdhw	2.62	2.61	2.62	2.61	2.62	2.61	
		Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		η_{wh} (water heating efficiency) %	110	108	110	108	110	108	
		Qelec (Daily electricity consumption) kWh	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature °C	52.5						
		Stand-by power input W	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class	A						
	Cold climate	AEC (Annual electricity consumption) kWh	1,091	1,814	1,091	1,814	1,091	1,814	
		COPdhw	2.26	2.23	2.26	2.23	2.26	2.23	
		Heat up time	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min	
		η_{wh} (water heating efficiency) %	94	92	94	92	94	92	
		Qelec (Daily electricity consumption) kWh	5.170	8.560	5.170	8.560	5.170	8.560	
		Reference hot water temperature °C	52.5						
		Stand-by power input W	36.4	54.4	36.4	54.4	36.4	54.4	
Warm climate	AEC (Annual electricity consumption) kWh	843	1,388	843	1,388	843	1,388		
	COPdhw	2.90							
	Heat up time	1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min		
	η_{wh} (water heating efficiency) %	122	121	122	121	122	121		
	Qelec (Daily electricity consumption) kWh	4.020	6.570	4.020	6.570	4.020	6.570		
	Reference hot water temperature °C	52.5							
	Stand-by power input W	32.9	46.1	32.9	46.1	32.9	46.1		
Space heating 	Average climate water outlet 55°C	General Annual energy consumption kWh	7,211						
		η_s (Seasonal space heating efficiency) %	140						
		Prated at -10°C kW	13						
		Qhe Annual energy consumption (GCV) GJ	26						
		SCOP	3.58						
		Seasonal space heating eff. class	A++						
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0					
			COPd	2.47					
			Pdh kW	11.2					
		B Condition (2°CDB/1°CWB)	PERd %	98.8					
			Cdh (Degradation heating)	1.0					
			COPd	3.56					
		C Condition (7°CDB/6°CWB)	Pdh kW	6.9					
			PERd %	142.4					
Cdh (Degradation heating)	1.0								
COPd	4.44								

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Technical specifications				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3		
Space heating 	Average climate	C Condition (7°CDB/6°CWB)	Pdh	kW					6.9		
			PERd	%					177.6		
	water outlet 55°C	D Condition (12°CDB/11°CWB)	Cd (Degradation heating)	COPd						1.0	
				Pdh	kW					5.72	
			PERd	%						6.2	
			Tol (temperature operating limit)	COPd							228.8
	Cold climate water outlet 55°C	General	Annual energy consumption	Pdh	kW					2.19	
				PERd	%					12.2	
			ηs (Seasonal space heating efficiency)	Prated at -22°C	kW						87.6
				Qhe Annual energy consumption (GCV)	Gj						-10
			A Condition (-7°CDB/-8°CWB)	Cd (Degradation heating)	COPd						55
					Pdh	kW					0.3
					PERd	%					2.19
			B Condition (2°CDB/1°CWB)	Cd (Degradation heating)	COPd						12.2
Pdh					kW					87.6	
PERd					%					-10	
C Condition (7°CDB/6°CWB)	Cd (Degradation heating)	COPd						9,654			
		Pdh	kW					125			
		PERd	%					13			
D Condition (12°CDB/11°CWB)	Cd (Degradation heating)	COPd						35			
		Pdh	kW					1.0			
		PERd	%					2.74			
		Tol (temperature operating limit)	COPd						7.5		

2 Specifications

1 - 1 EPRA014-018DV

2

Technical specifications				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3	
Space heating Cold climate water outlet 55°C	Tol (temperature operating limit)	PERd	%				66.0			
		TOL	°C				-22			
	G Condition (-15°CDB/-)	COPd						2.17		
			Pdh	kW				10.3		
	Tbiv (bivalent temperature)	COPd	PERd	%				86.8		
			Pdh	kW				1.90		
	Rated heat output	Pdh	PERd	%				11.0		
			Tbiv	°C				76.0		
	Warm climate water outlet 55°C	General	Psup (at Tdesign -22°C)	kW				-18		
			Annual energy consumption	kWh				1.9		4,090
	B Condition (2°CDB/1°CWB)	COPd	ηs (Seasonal space heating efficiency)	%				160		
			Prated at 2°C	kW				13		
	C Condition (7°CDB/6°CWB)	COPd	Qhe Annual energy consumption (GCV)	Gj				15		
			Cdh (Degradation heating)					1.0		
	D Condition (12°CDB/11°CWB)	COPd	Pdh	kW				2.45		
			PERd	%				10.0		
	Tbiv (bivalent temperature)	COPd	PERd	%				98.0		
			Cdh (Degradation heating)					1.0		
	Water outlet 45°C	H Condition (2°C/-)	COPd					3.69		
			Pdh	kW				7.9		
Average climate water outlet 35°C	General	PERd	%				147.6			
		Cdh (Degradation heating)					1.0			
Annual energy consumption	COPd	COPd					5.39			
		Pdh	kW				5.9			
ηs (Seasonal space heating efficiency)	COPd	PERd	%				215.6			
		Tbiv	°C				3.27			
Prated at -10°C	Pdh	COPd					3.27			
		Pdh	kW				9.9			
Qhe Annual energy consumption (GCV)	PERd	PERd	%				130.8			
		Tbiv	°C				5			
SCOP	Max.	H Condition (2°C/-)	kW		11.1			11.8		
		Annual energy consumption	kWh				5,726			
ηs (Seasonal space heating efficiency)	COPd	ηs (Seasonal space heating efficiency)	%				177			
		Prated at -10°C	kW				13			
Qhe Annual energy consumption (GCV)	PERd	Qhe Annual energy consumption (GCV)	Gj				21			
		SCOP					4.51			

2 Specifications



1 - 1 EPRA014-018DV

Technical specifications				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3		
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class						A+++		
	A Condition (-7°CDB/-8°CWB)	COPd							3.12		
			Pdh	kW					11.1		
			PERd	%					124.8		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
				COPd						4.44	
				Pdh	kW					6.7	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
				COPd						5.84	
				Pdh	kW					5.7	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
				COPd						7.40	
				Pdh	kW					6.0	
	Tol (temperature operating limit)	PERd							296.0		
			TOL	°C					2.76		
			WTOL	°C					11.1		
									110.4		
	Tbiv (bivalent temperature)	COPd							-10		
			Pdh	kW					35		
			PERd	%					3.12		
Rated heat output	Tbiv							11.1			
		Tbiv	°C					124.8			
Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)							1.4		
			Annual energy consumption							7,417	
				ηs (Seasonal space heating efficiency)	%						163
				Prated at -22°C	kW						13
	A Condition (-7°CDB/-8°CWB)	Qhe Annual energy consumption (GCV)							27		
			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			
								202.8			

2 Specifications

1 - 1 EPRA014-018DV

2

Technical specifications				ETVZ16S18E9W + EPRA14DV3	ETVZ16S23E9W + EPRA14DV3	ETVZ16S18E9W + EPRA16DV3	ETVZ16S23E9W + EPRA16DV3	ETVZ16S18E9W + EPRA18DV3	ETVZ16S23E9W + EPRA18DV3	
Space heating 	Cold climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0	
			COPd						6.10	
			Pdh	kW						5.3
			PERd	%						244.0
										1.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.03
			Pdh	kW						5.7
			PERd	%						281.2
										2.16
		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	COPd						2.62	
									10.7	
	(bivalent temperature)	PERd	%						104.8	
		Tbiv	°C						-15	
		Rated heat output	Psup (at Tdesign -22°C)	kW					2.4	
		Warm climate water outlet 35°C	General	Annual energy consumption	kWh					2,885
				ηs (Seasonal space heating efficiency)	%					229
	Prated at 2°C			kW					13	
	Qhe Annual energy consumption (GCV)			Gj					10	
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)								1.0	
	COPd							3.67		
	Pdh	kW						9.8		
C Condition (7°CDB/6°CWB)	PERd	%						146.8		
	Cdh (Degradation heating)							1.0		
	COPd							5.60		
	Pdh	kW						7.9		
	PERd	%						224.0		
Tbiv (bivalent temperature)	COPd							4.95		
	Pdh	kW						9.8		
	PERd	%						198.0		
	Tbiv	°C						5		
								1.0		
Space heating 	Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0	
			COPd						7.60	
			Pdh	kW						6.1
			PERd	%						304.0

(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				EPRA14DV3	EPRA16DV3	EPRA18DV3
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	146			
	Packed unit	kg	182			
Packing	Material	Carton / Wood (pallet) / PE (Straps) / Plastic foil				
	Weight	kg	27			

2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications				EPRA14DV3	EPRA16DV3	EPRA18DV3	
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			JT90KFDM@SP			
	Type			Hermetically sealed scroll compressor			
Compressor	Starting method			Inverter driven			
PED	Category			Category III			
Operation range	Heating	Min.	°CDB	-28.0			
		Max.	°CDB	35			
	Cooling	Min.	°CDB	10			
		Max.	°CDB	43			
	Domestic hot water	Max.	°CDB	35			
		Min.	°CDB	-28			
PED	Most critical part	Name		Compressor			
		Ps*V	Bar*I	213			
Piping connections	Water inlet heat exchanger diameter	inch		G1" (male)			
	Water outlet heat exchanger diameter	inch		G1" (male)			
Sound power level	Heating	Nom.	dB(A)	56.0 (1)	59.0 (1)		
	Cooling	Nom.	dB(A)	56.0 (1)	59.0 (1)		
Sound pressure level	Heating	Nom.	dB(A)	43.0 (2)	48.0 (2)		
	Cooling	Nom.	dB(A)	43.0 (2)	48.0 (2)		
	Night quiet mode	Heating	dB(A)	54.0 (2)			
Refrigerant	Type			R-32			
	GWP			675.0			
	Charge	TCO2Eq		2.84			
	Charge	kg		4.20			
	Control			Expansion valve			
	Circuits	Quantity			1		
Refrigerant oil	Type			FW68DE			
	Charged volume	l		1.85			
Piping connections	Piping length	OU - IU	Max.	m	50		
	High pressure side	Design pressure	bar		56		
	Level difference	IU - OU	Max.	m	10.0		
	Water circuit	Filter ball valve		Yes			
	Defrost method			Reversed cycle			
Defrost control			Sensor for outdoor heat exchanger temperature				
Capacity control	Method			Inverter controlled			
Safety devices	Item	01			High pressure switch		
		02			Low pressure switch		
	03			Fuse			
	04			Compressor motor protection			
	05			Pressure relief valve			

2 Specifications

1 - 1 EPRA014-018DV

2

Electrical Specifications				EPRA14DV3	EPRA16DV3	EPRA18DV3	
Power supply	Name			V3			
	Phase			1~			
	Frequency	Hz	50				
	Voltage	V	230				
	Voltage range	Min.	%	-10			
		cos phi	Nom.	0.90		0.95	
		Max.	%	0.98			
Current	Minimum Ssc value	kVa	Equipment complying with EN / IEC 61000-3-12				
	Recommended fuses	A	32				
	Inverter modula-	Min.	%	40 (3)	39 (3)	37 (3)	
		For power supply	Remark	See installation manual outdoor unit			
Wiring connections	For power supply	Remark	See installation manual indoor unit				
	For connec-	Remark	See installation manual indoor unit				

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

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

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

3 Electrical data

3 - 1 Electrical Data

EPRA014-018DV
EPRA014-018DW

* Electrical meter specification

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

- Possible number of pulses

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

- Pulse duration

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

- Measurement type (depending on installation)

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

* Electrical meter installation guideline

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

- Required number of electrical meters

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

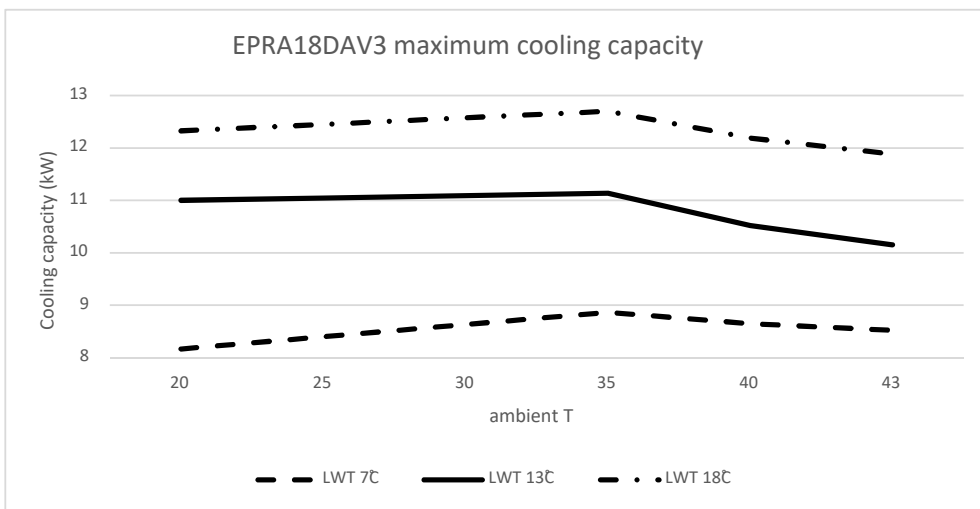
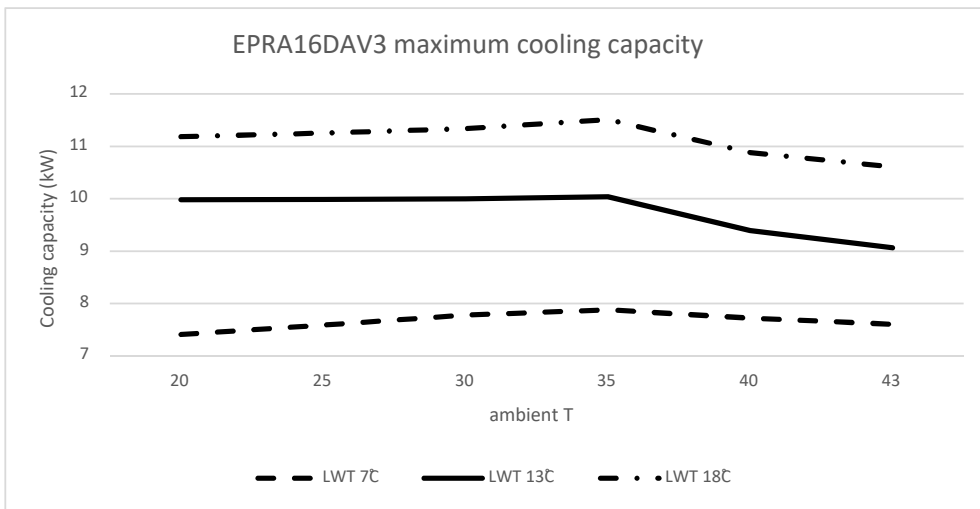
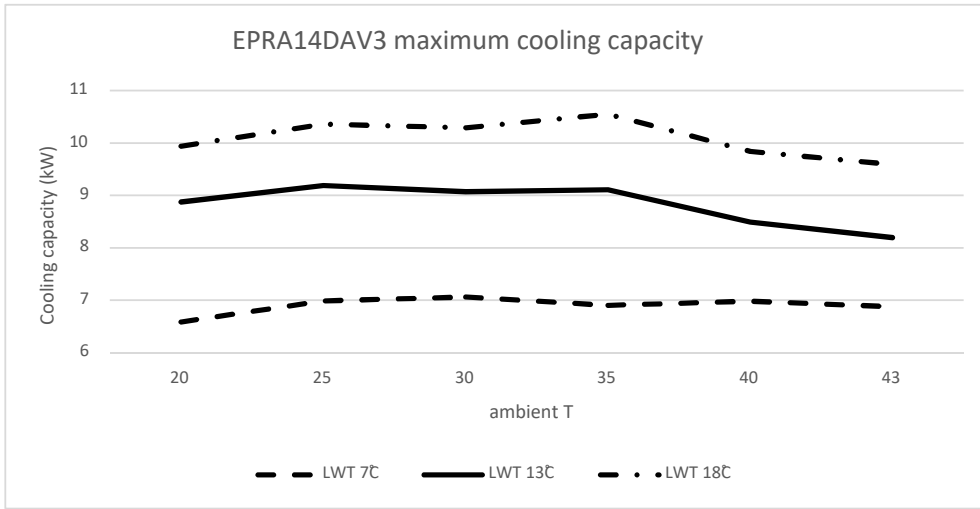
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4 Capacity graphs

4 - 1 Cooling Capacity Graphs

4

EPRA014-018DV

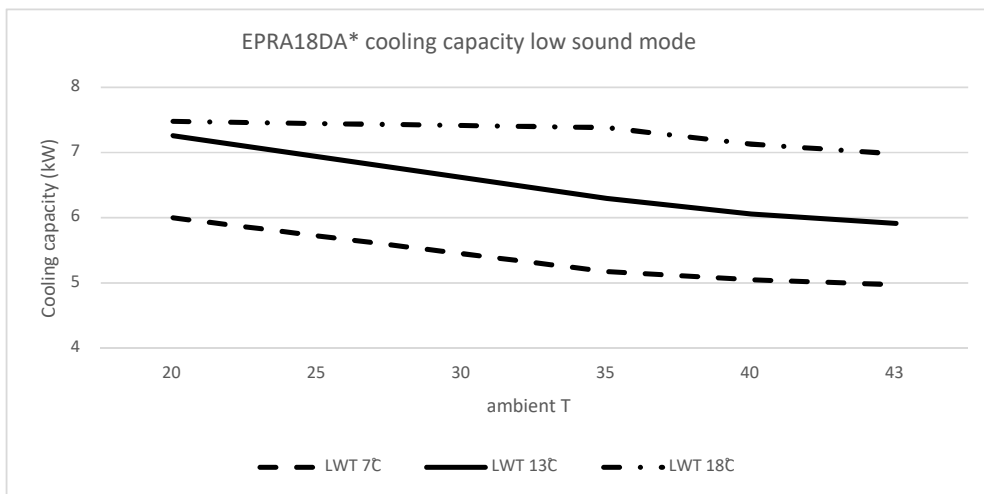
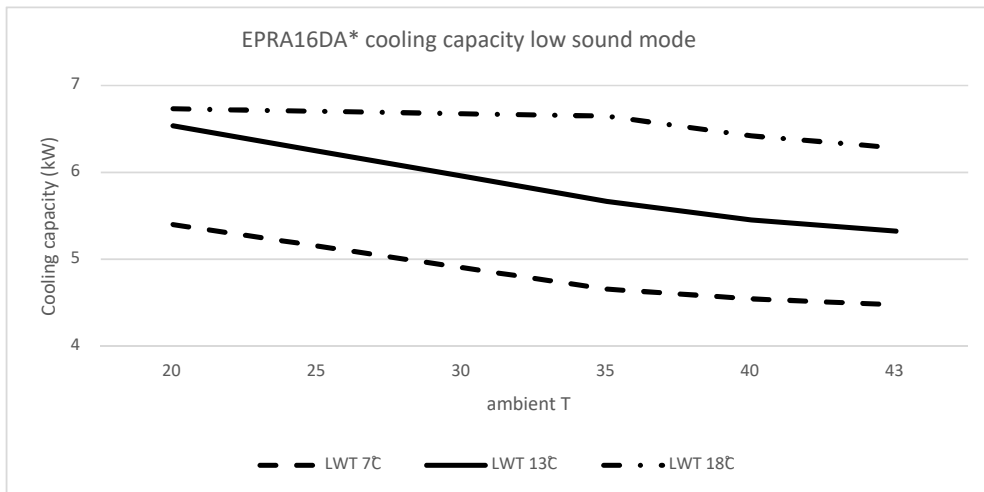
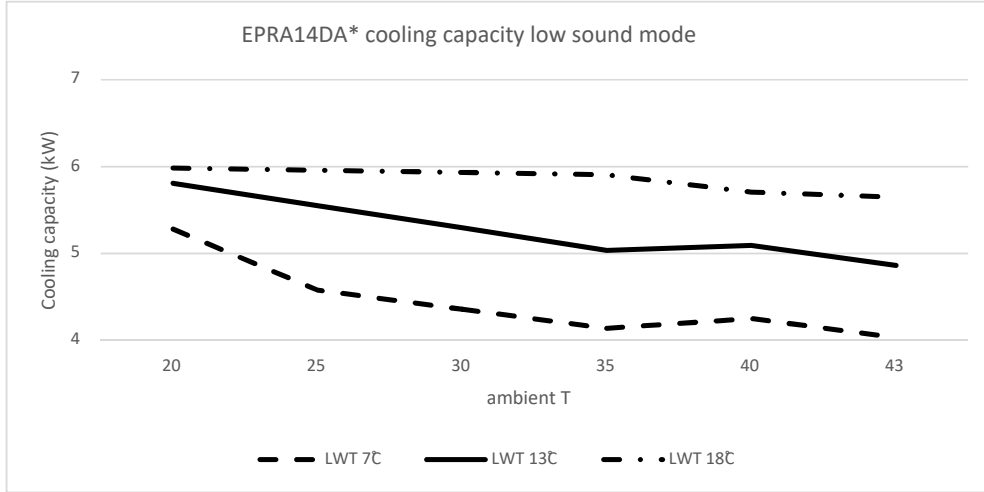


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4 Capacity graphs

4 - 1 Cooling Capacity Graphs

EPRA014-018DV
EPRA014-018DW



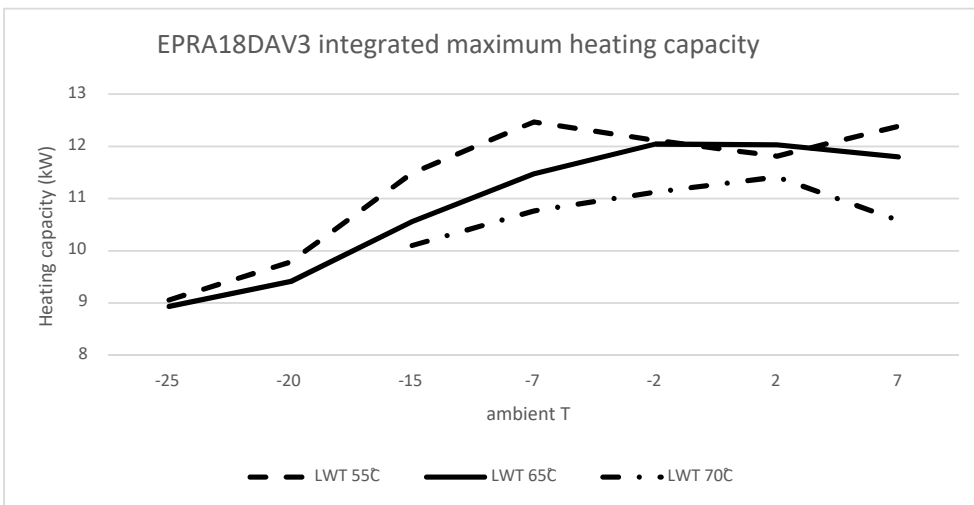
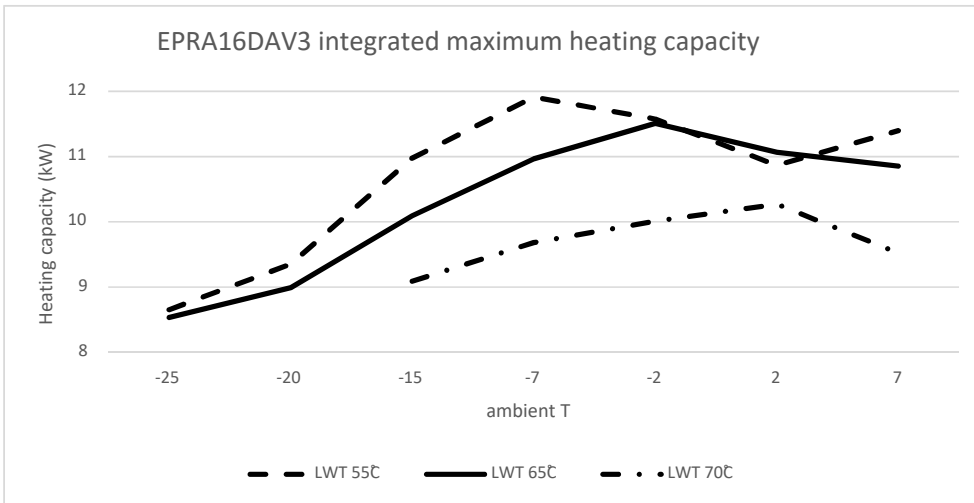
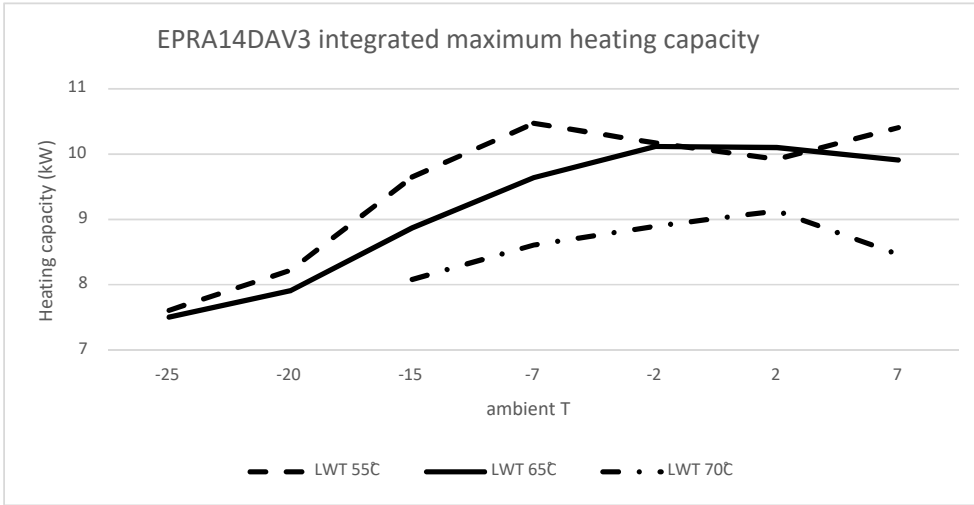
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4 Capacity graphs

4 - 2 Heating Capacity Graphs

4

EPRA014-018DV

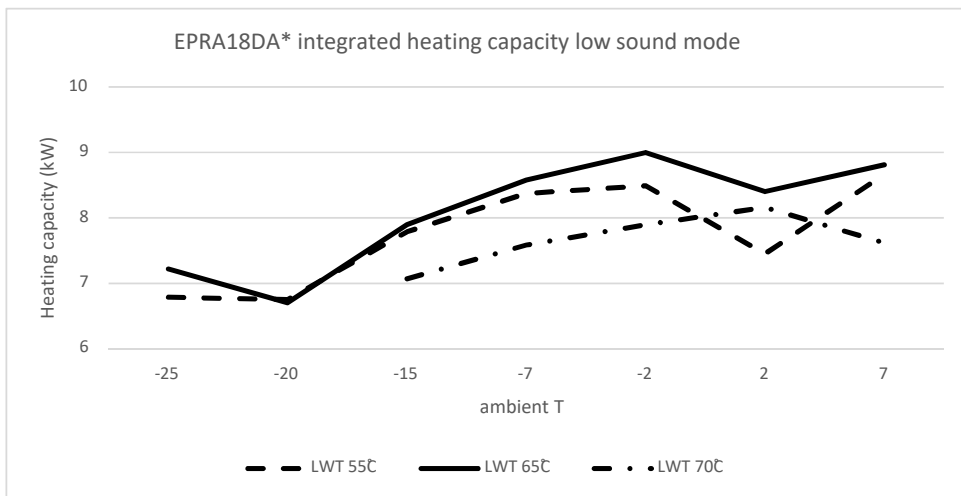
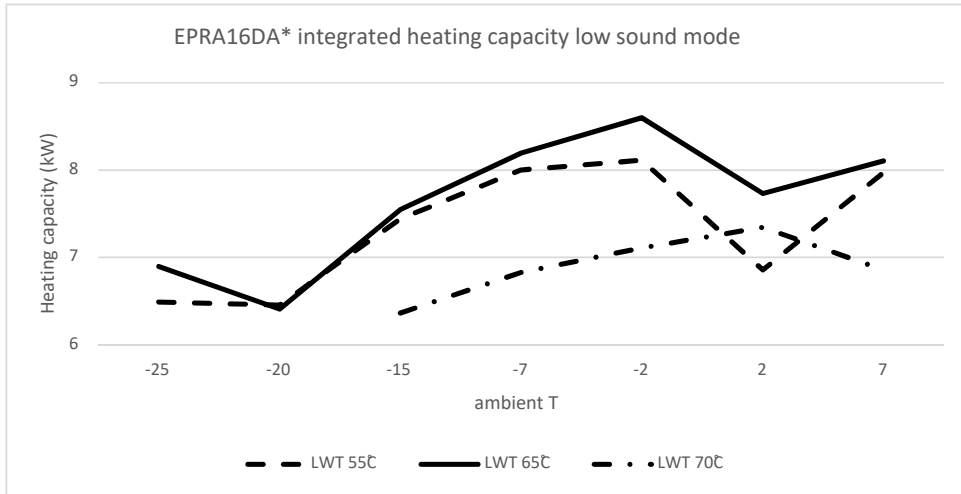
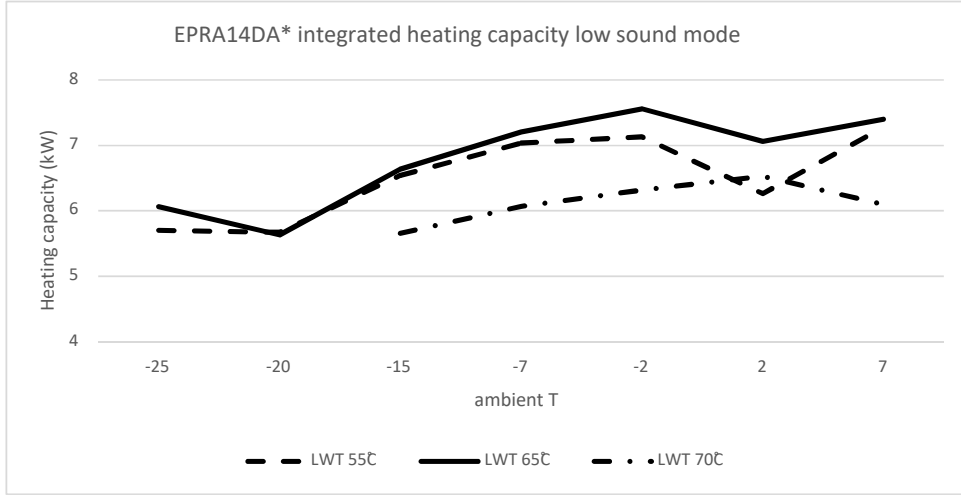


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4 Capacity graphs

4 - 2 Heating Capacity Graphs

EPRA014-018DV
EPRA014-018DW



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5 Capacity tables

5 - 1 Certification Programs

EPRA014-018DW EPRA014-018DV

5

Rated data for certification programmes - heating mode

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

Rated data for certification programmes - cooling mode

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

Rated data for certification programmes - domestic hot water performance

Indoor unit Outdoor unit	ETV 16S18D(E)JA		ETV 16S21D(E)JA		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		ETS18P300A		Used for:		
	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2	EPRA-DW1	EPRA-DW2			
Application	Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Average climate		Keymark		
Domestic hot water tank volume	180L		230L		294L		294L		294L		294L		294L		294L				
Tapping pattern	L		XL		L		L		L		L		L		L				
Heat-up time (h:mm:ss)	01:06:36		01:19:36		01:25:00	01:41:00	01:25:00	01:41:00	01:25:00	01:41:00	01:25:00	01:41:00	02:18:00	01:46:00	02:11:00	02:18:00		01:46:00	02:11:00
Q _{wh} [kW]	52,5		52,5		47,0		47,0		47,0		47,0		47,0		47,0			48,0	
P _{wh} [W]	34,2		42,9		49,2		58,5		49,2		58,5		51,0		57,1			57,1	57,1
V _{eq40} [l]	240		298		349,0		349,0		349,0		349,0		237,2		237,2			215,7	211,0
η _{wh} [%]	109,5		105,7		108,3		106,6		101		101		111		115			108	108
COP _{DHW}	2,62		2,53		2,61		2,55		2,38		2,38		2,67		2,75			2,68	2,58

Symbols

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

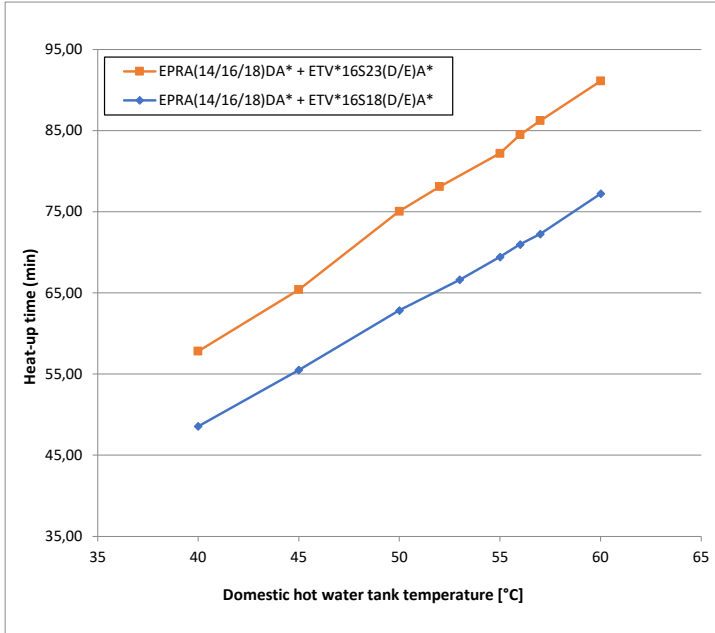
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5 Capacity tables

5 - 2 Domestic Hot Water performance

EPRA014-018DV
EPRA014-018DW

Heat-up times



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

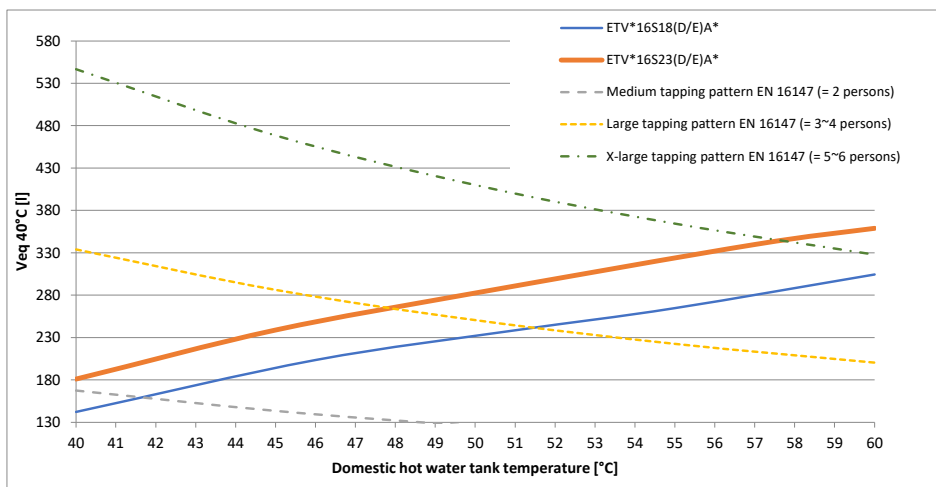
Notes

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

Selection guide for the domestic hot water tank volume

(1)

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



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

Notes

- According to EN16147.

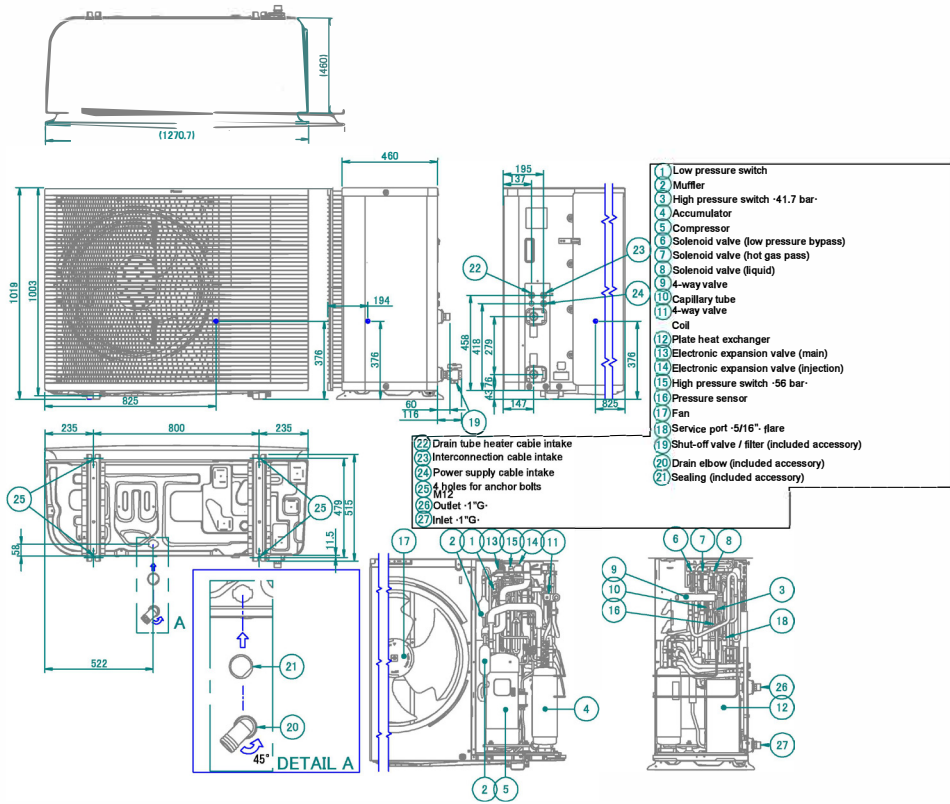
4D126944A

6 Dimensional drawings

6 - 1 Dimensional Drawings

6

EPRA014-018DV
EPRA014-018DW

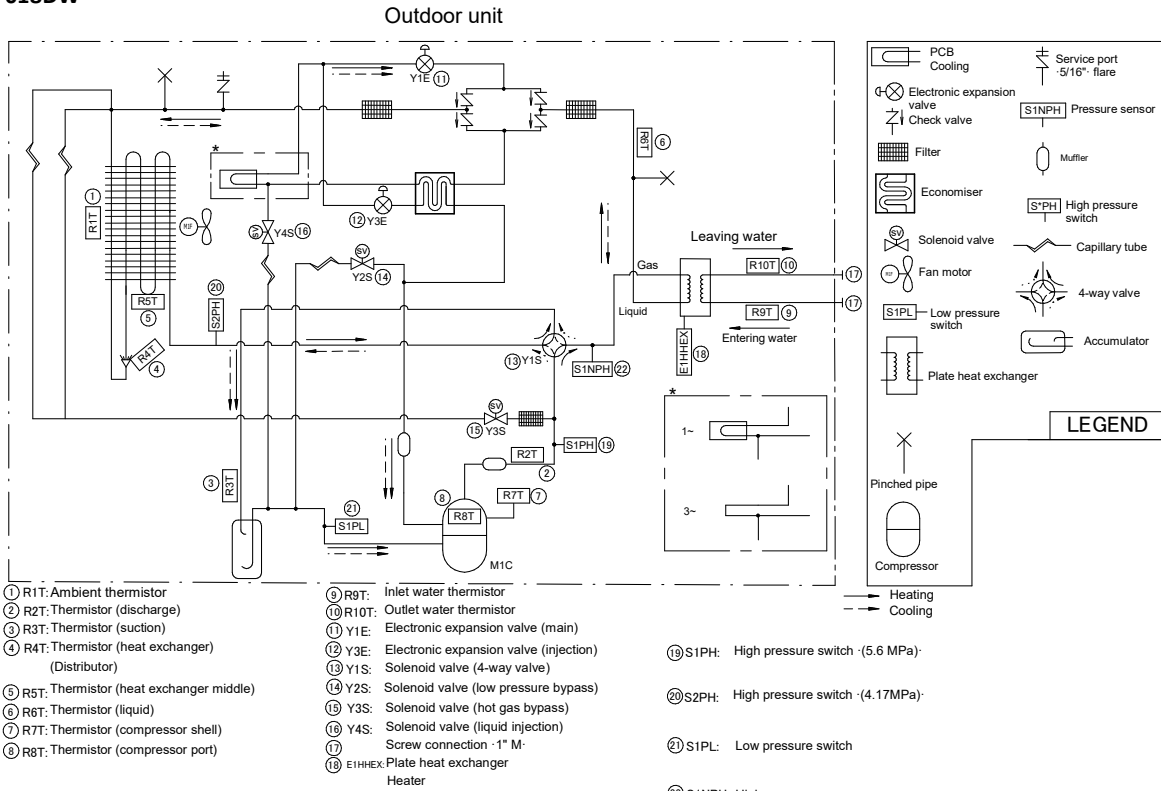


3D124101C

7 Piping diagrams

7 - 1 Piping Diagrams

EPRA014-018DV
EPRA014-018DW



3D124079C

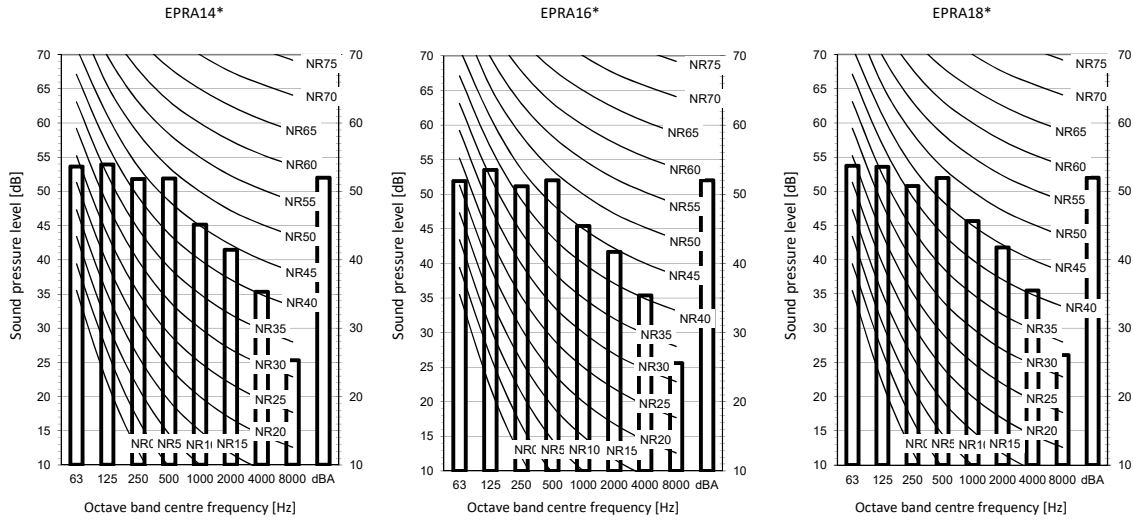
9 Sound data

9 - 1 Sound Pressure Spectrum - Cooling

EPRA014-018DV

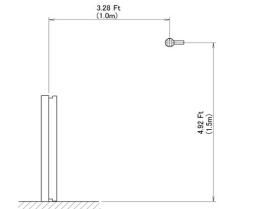
EPRA014-018DW

Cooling Sound



Notes

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



Measuring location (discharge side)

3D126758-1

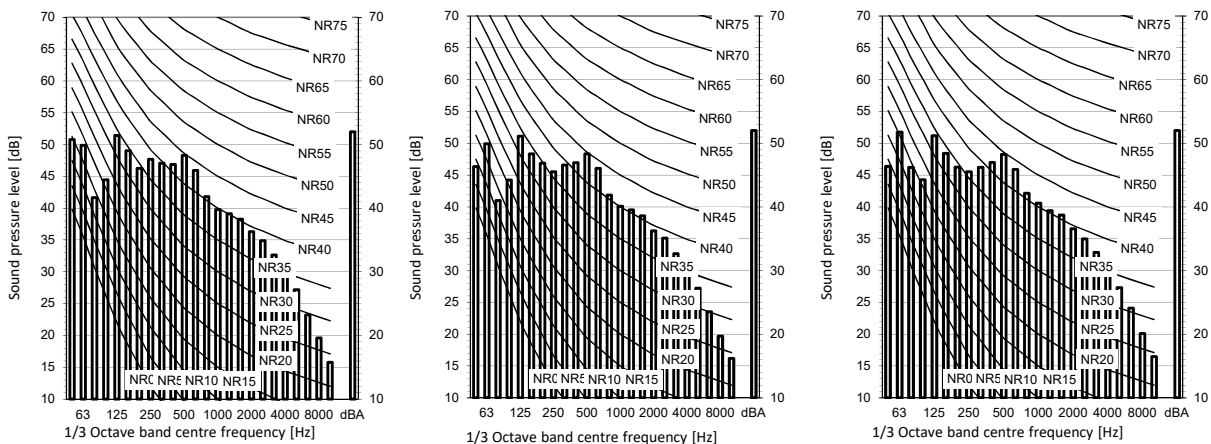
EPRA014-018DV

EPRA014-018DW

EPRA14*

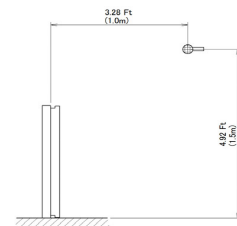
EPRA16*

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)

3D126758-2

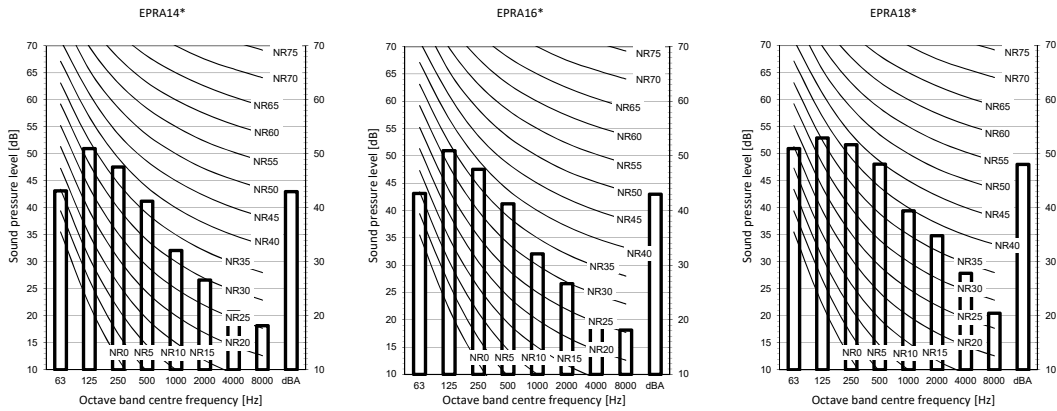
9 Sound data

9 - 2 Sound Pressure Spectrum - Heating

9

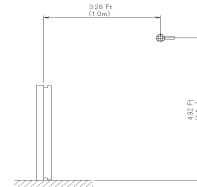
EPRA014-018DV
EPRA014-018DW

Heating Sound



Notes (graphics only)

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



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

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

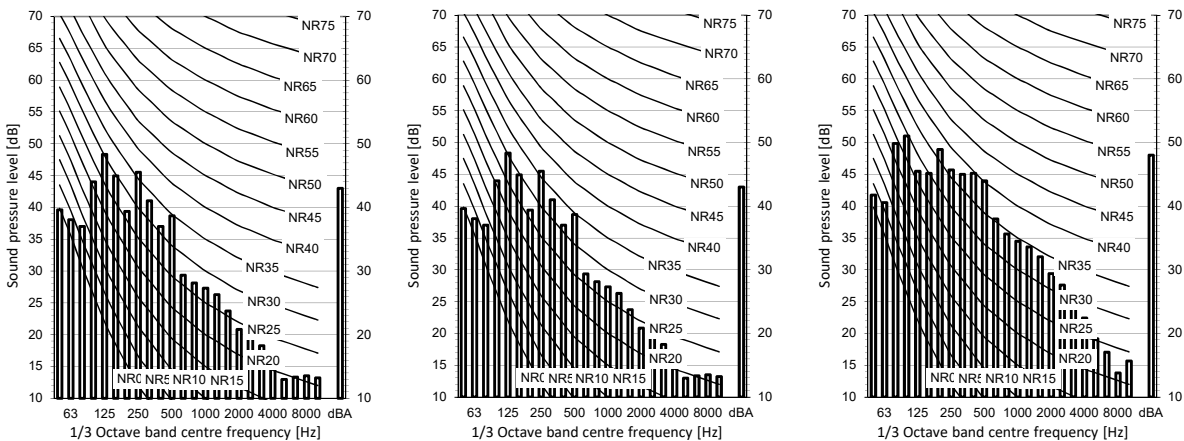
3D125215A-1

EPRA014-018DV
EPRA014-018DW

EPRA14*

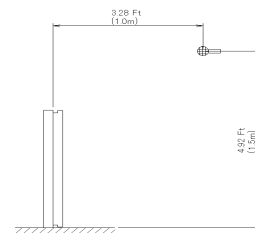
EPRA16*

EPRA18*



Notes

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



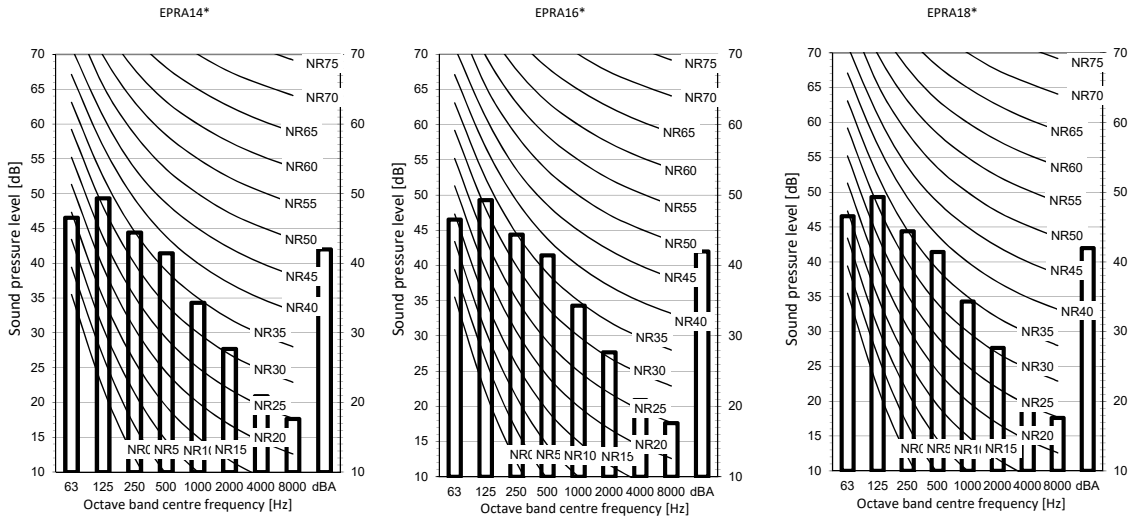
3D125215A-2

9 Sound data

9 - 3 Sound Pressure Spectrum Quiet Mode

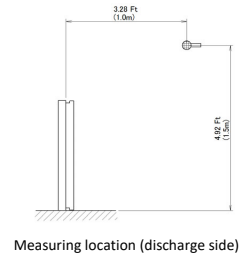
EPRA014-018DV
EPRA014-018DW

Heating Low Sound Mode 2



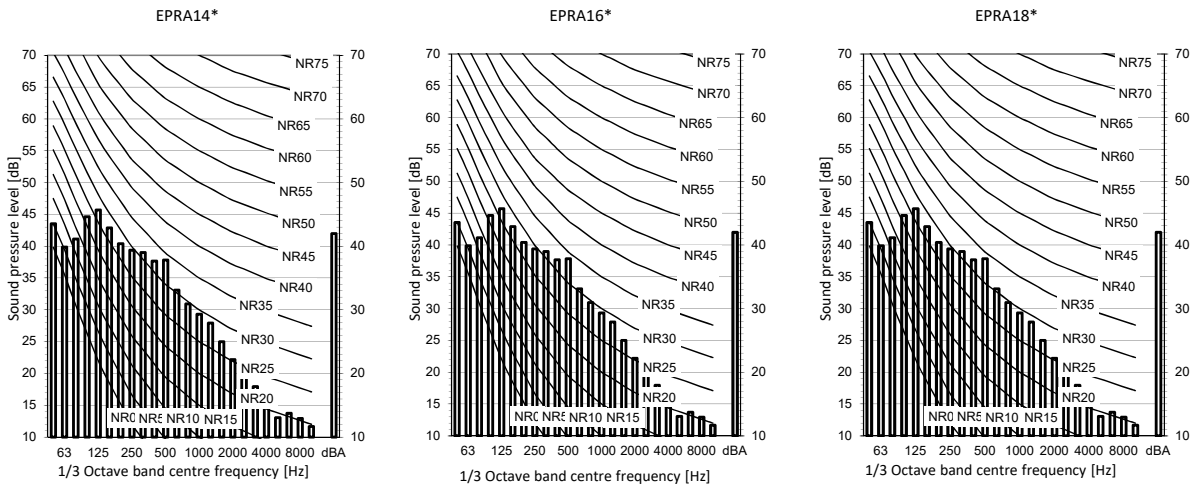
Notes

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



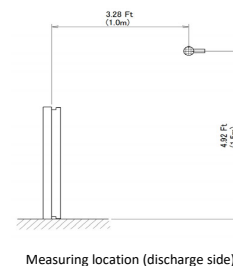
3D125214-1

EPRA014-018DV
EPRA014-018DW



Notes

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



3D125214-2

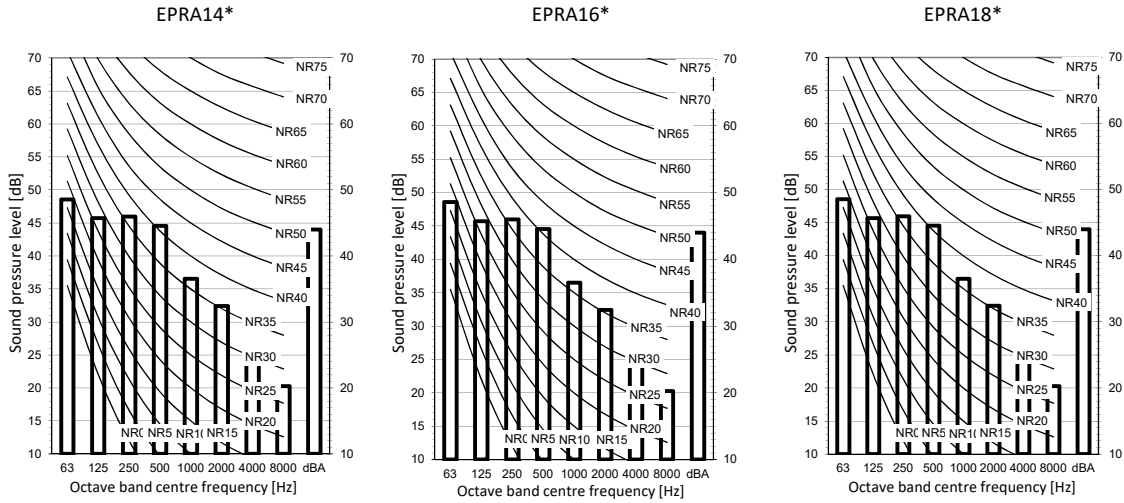
9 Sound data

9 - 3 Sound Pressure Spectrum Quiet Mode

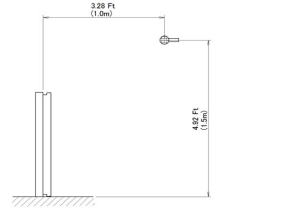
9

EPRA014-018DV

EPRA014-018DW Cooling: Low Sound Mode 2



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

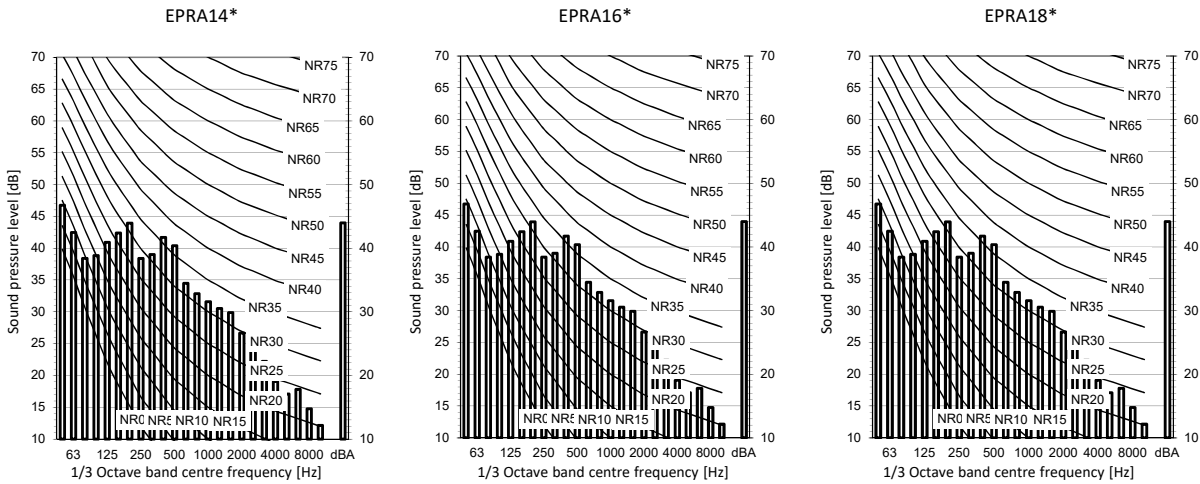


Measuring location (discharge side)

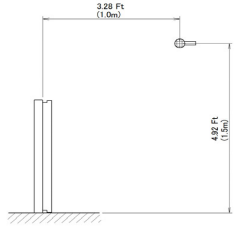
3D126757-1

EPRA014-018DV

EPRA014-018DW



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



Measuring location (discharge side)

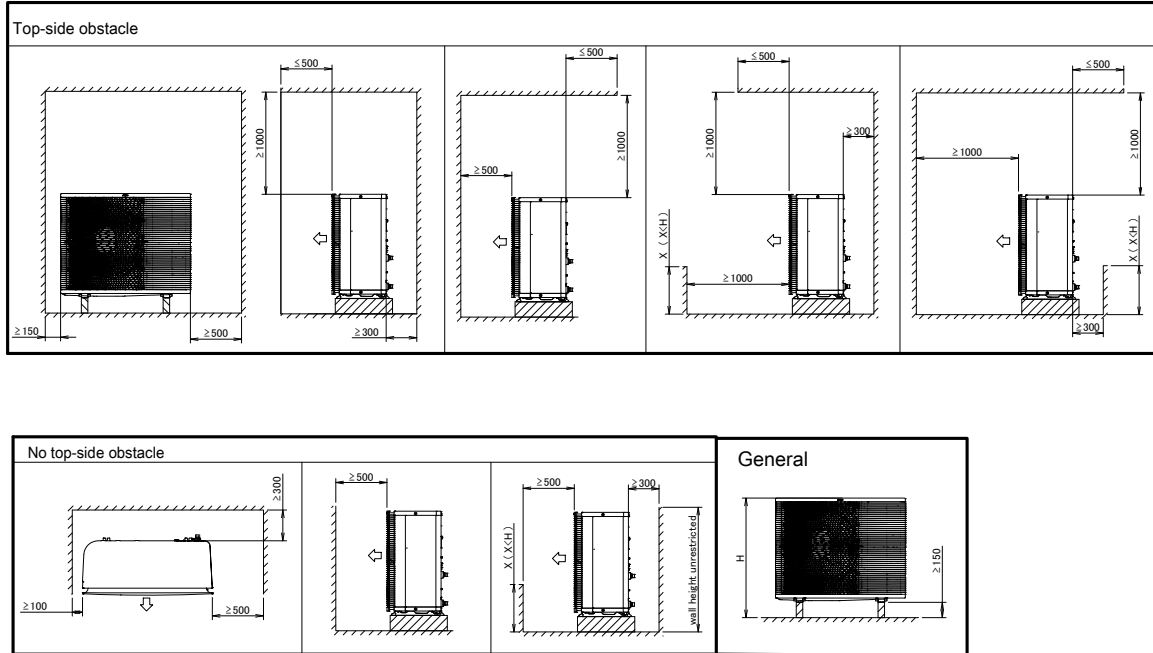
3D126757-2

10 Installation

10 - 1 Installation Method

EPRA014-018DV
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Minimum space for air passage



3D124412

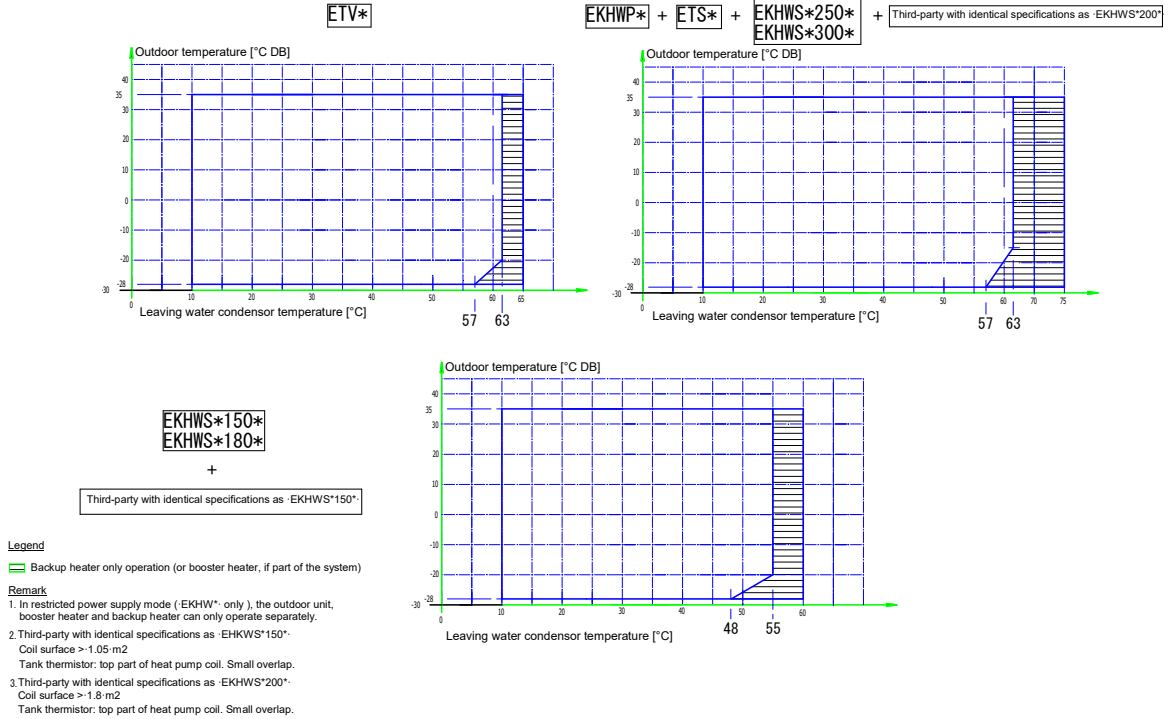
11 Operation range

11 - 1 Operation Range

11

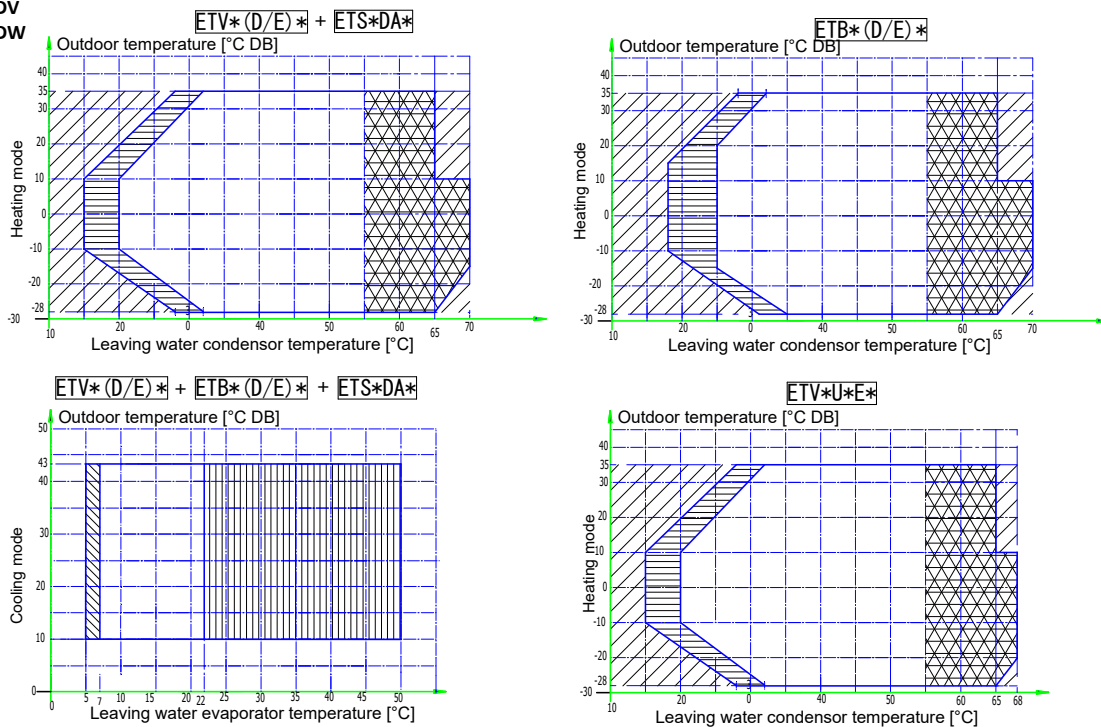
EPRA014-018DV
EPRA014-018DW

Domestic hot water heating mode

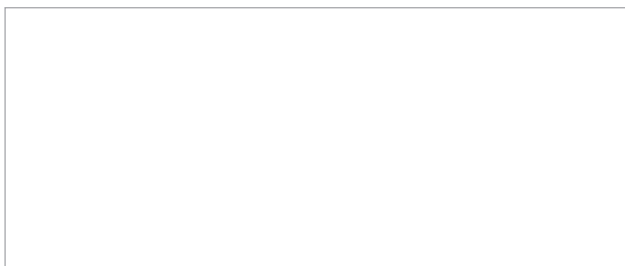


3D125789B

EPRA014-018DV
EPRA014-018DW



3D125788B



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