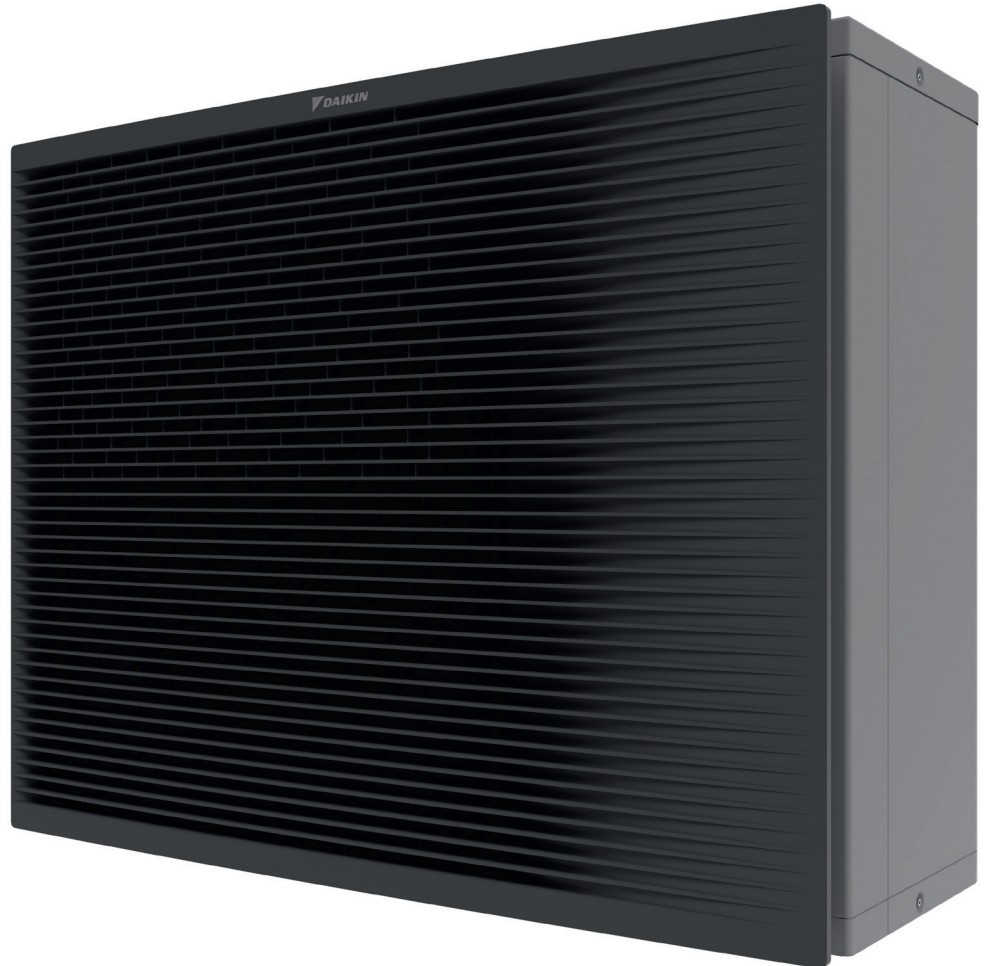




Daikin Altherma high  
temperature split  
Technical Data

EPRA014-018DV





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# EPRA014-018DV

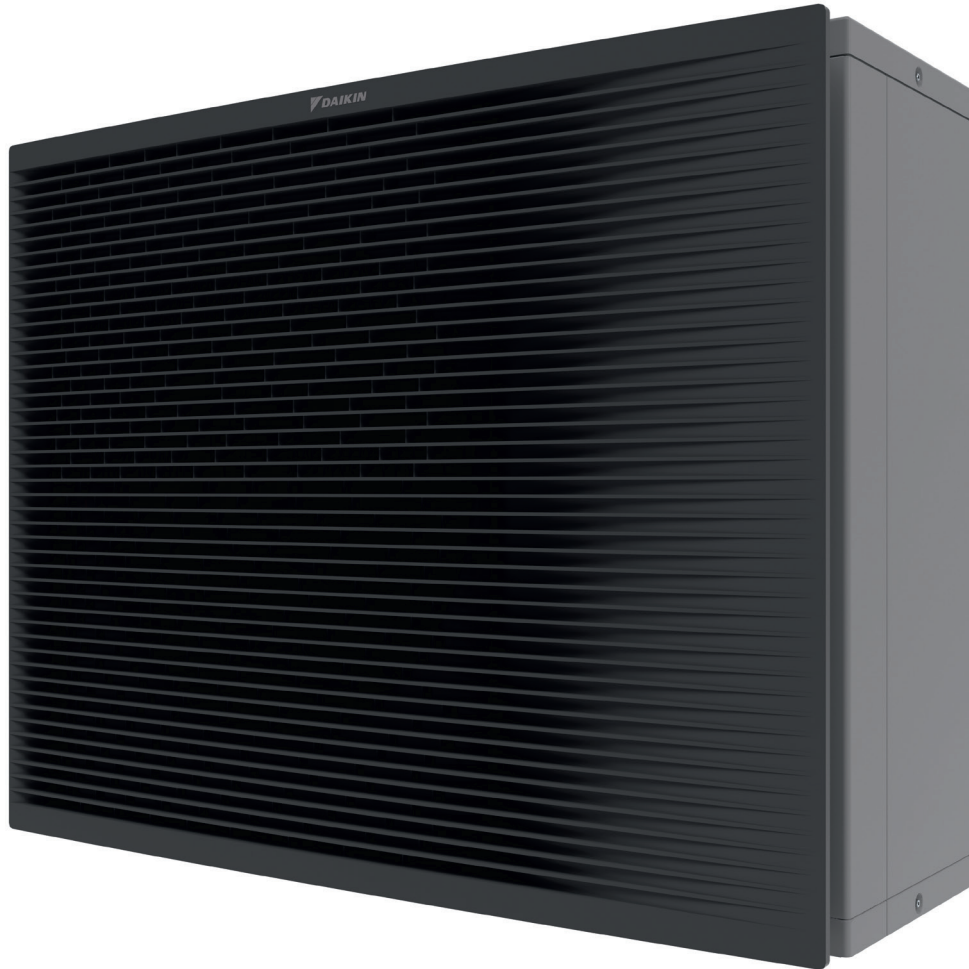
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# 1 Features

## 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					ETBH16D6V + EPRA14DV3	ETBH16D6V + EPRA16DV3	ETBH16D6V + EPRA18DV3	
Indoor unit					ETBH16DA6V			
Outdoor unit					EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)	3.90 (1)	4.16 (1)		
	Nom.		kW	5.69 (2)	9.00 (2)			
	Max.		kW	8.75 (1)	10.00 (1)	11.25 (1)		
Power input	Heating	Min.	kW	0.74 (3)	0.82 (3)	0.88 (3)		
		Nom.	kW	1.22 (2)	1.80 (2)			
		Max.	kW	1.86 (3)	2.13 (3)	2.40 (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)		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			
Space heating general	Air to water unit	Rated airflow (outdoor)		m <sup>3</sup> /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		
			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			
		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				


## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications			ETBH16D6V + EPRA14DV3	ETBH16D6V + EPRA16DV3	ETBH16D6V + EPRA18DV3	
Space heating Average climate 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		2.19	
			Pdh kW		12.2	
			PERd %		87.6	
			TOL °C		-10	
		Rated heat output	Psup (at Tdesign -10°C) kW		0.3	
			Tbiv (bivalent temperature)	COPd		2.19
	Pdh kW			12.2		
	PERd %			87.6		
	Cold climate water outlet 55°C	General	Annual energy consumption kWh		9,654	
			s (Seasonal space heating efficiency) %		125	
			Prated at -22°C kW		13	
			Qhe Annual energy consumption (GCV) GJ		35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0	
			COPd		2.74	
			Pdh kW		7.5	
			PERd %		109.6	
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0		
		COPd		3.67		
		Pdh kW		5.8		
		PERd %		146.8		
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)		1.0		
		COPd		4.69		
		Pdh kW		5.6		
	PERd %		187.6			
D Condition (12°CDB/11°CWB)	COPd		6.12			
	Pdh kW		6.2			
	PERd %		244.8			
	Tol (temperature operating limit)	COPd		1.65		
Pdh kW			10.6			
PERd %			66.0			
TOL °C			-22			
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		4,090		
		s (Seasonal space heating efficiency) %		160		
		Prated at 2°C kW		13		
		Qhe Annual energy consumption (GCV) GJ		15		

## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications			ETBH16D6V + EPRA14DV3	ETBH16D6V + EPRA16DV3	ETBH16D6V + EPRA18DV3
Space heating 	Warm climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0	
			COPd	2.45	
			Pdh kW	10.0	
			PERd %	98.0	
			Cdh (Degradation heating)	1.0	
		C Condition (7°CDB/6°CWB)	COPd	3.69	
			Pdh kW	7.9	
			PERd %	147.6	
			Cdh (Degradation heating)	1.0	
		D Condition (12°CDB/11°CWB)	COPd	5.39	
			Pdh kW	5.9	
			PERd %	215.6	
			Tbiv (bivalent temperature)	3.27	
		Tbiv (bivalent temperature)	Pdh kW	9.9	
			PERd %	130.8	
Tbiv °C	5				
Water outlet 45°C	H Condition (2°C / -)		Max. kW	11.1	11.8
Average climate water outlet 35°C	General	SCOP	4.51		
		Annual energy consumption kWh	5,726		
		s (Seasonal space heating efficiency) %	177		
		Prated at -10°C kW	13		
		Qhe Annual energy consumption (GCV) GJ	21		
		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		
		s (Seasonal space heating efficiency) %	163		

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## 2 Specifications

1 - 1 EPRA014-018DV

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Technical Specifications				ETBH16D6V + EPRA14DV3	ETBH16D6V + EPRA16DV3	ETBH16D6V + EPRA18DV3	
Space heating Cold climate water outlet 35°C	General	Prated at -22°C	kW		13		
		Qhe Annual energy consumption (GCV)	Gj		27		
		A	COPd		3.50		
		Condition (-7°CDB/-8°CWB)	Pdh	kW	8.0		
			PERd	%	140.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			5.07	
			Pdh	kW	4.9		
			PERd	%	202.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd			6.10	
			Pdh	kW	5.3		
			PERd	%	244.0		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd			7.03	
			Pdh	kW	5.7		
			PERd	%	281.2		
		Tol (temperature operating limit)	COPd			2.16	
			Pdh	kW	10.1		
			PERd	%	86.4		
			TOL	°C	-22		
		G	COPd			35	
			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	2,885			
		s (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		
			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)	COPd			4.95	
			Pdh	kW	9.8		
			PERd	%	198.0		
			Tbiv	°C	5		
		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)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

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

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


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

Technical Specifications				ETBH16D9W + EPRA14DV3	ETBH16D9W + EPRA16DV3	ETBH16D9W + EPRA18DV3
Indoor unit				ETBH16SDA9W		



## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications				ETBH16D9W + EPRA14DV3	ETBH16D9W + EPRA16DV3	ETBH16D9W + EPRA18DV3	
Outdoor unit				EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)	3.90 (1)	4.16 (1)	
	Nom.		kW	5.69 (2)	9.00 (2)		
	Max.		kW	8.75 (1)	10.00 (1)	11.25 (1)	
Power input	Heating	Min.	kW	0.74 (3)	0.82 (3)	0.88 (3)	
		Nom.	kW	1.22 (2)	1.80 (2)		
		Max.	kW	1.86 (3)	2.13 (3)	2.40 (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	25.8 (2)		
General	Supplier/Manufacturer details	Name and address Name or trademark Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes		
		Brine-to-water heat pump			No		
		Heat pump combination heater			Yes		
		Low-temperature heat pump			No		
		Supplementary heater integrated			Yes		
	LW(A) Sound power level	Indoor	Water-to-water heat pump			No	
			Outdoor	dB(A)	44.0		
	LW(A) Sound power level (according to EN14825)				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 <sup>3</sup> /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			9.0		
		Type of energy input			Electrical		
Space heating  Average climate water outlet 55°C	General	Annual energy consumption		kWh	7,211		
		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	
			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			


## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications			ETBH16D9W + EPRA14DV3	ETBH16D9W + EPRA16DV3	ETBH16D9W + EPRA18DV3	
Space heating Average climate 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		2.19	
			Pdh kW		12.2	
			PERd %		87.6	
			TOL °C		-10	
		Rated heat output	Psup (at Tdesign -10°C) kW		0.3	
			Tbiv (bivalent temperature)	COPd		2.19
	Pdh kW			12.2		
	PERd %			87.6		
	Cold climate water outlet 55°C	General	Annual energy consumption kWh		9,654	
			s (Seasonal space heating efficiency) %		125	
			Prated at -22°C kW		13	
			Qhe Annual energy consumption (GCV) GJ		35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0	
			COPd		2.74	
			Pdh kW		7.5	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
COPd				3.67		
Pdh kW				5.8		
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
	COPd		4.69			
	Pdh kW		5.6			
D Condition (12°CDB/11°CWB)	COPd		6.12			
	Pdh kW		6.2			
	PERd %		244.8			
Tol (temperature operating limit)	COPd		1.65			
	Pdh kW		10.6			
	PERd %		66.0			
	TOL °C		-22			
G Condition (-15°CDB/-)	COPd		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	Psup (at Tdesign -22°C) kW		1.9			
	Tbiv °C		-18			
Warm climate water outlet 55°C	General	Annual energy consumption kWh		4,090		
		s (Seasonal space heating efficiency) %		160		
		Prated at 2°C kW		13		
		Qhe Annual energy consumption (GCV) GJ		15		

## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications			ETBH16D9W + EPRA14DV3	ETBH16D9W + EPRA16DV3	ETBH16D9W + EPRA18DV3			
Space heating 	Warm climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0				
			COPd	2.45				
			Pdh kW	10.0				
			PERd %	98.0				
			Cdh (Degradation heating)	1.0				
		C Condition (7°CDB/6°CWB)	COPd	3.69				
			Pdh kW	7.9				
			PERd %	147.6				
			Cdh (Degradation heating)	1.0				
		D Condition (12°CDB/11°CWB)	COPd	5.39				
			Pdh kW	5.9				
			PERd %	215.6				
			Tbiv (bivalent temperature)	3.27				
		Water outlet 45°C (2°C / -)	H Condition	Max.	kW	11.1	11.8	
						Average climate water outlet 35°C	General	SCOP
Annual energy consumption kWh	5,726							
s (Seasonal space heating efficiency) %	177							
Prated at -10°C kW	13							
Qhe Annual energy consumption (GCV) GJ	21							
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			
s (Seasonal space heating efficiency) %	163							

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## 2 Specifications

1 - 1 EPRA014-018DV

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Technical Specifications				ETBH16D9W + EPRA14DV3	ETBH16D9W + EPRA16DV3	ETBH16D9W + EPRA18DV3	
Space heating Cold climate water outlet 35°C	General	Prated at -22°C	kW		13		
		Qhe Annual energy consumption (GCV)	Gj		27		
		A	COPd		3.50		
		Condition (-7°CDB/-8°CWB)	Pdh	kW	8.0		
			PERd	%	140.0		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			5.07	
			Pdh	kW	4.9		
			PERd	%	202.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd			6.10	
			Pdh	kW	5.3		
			PERd	%	244.0		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd			7.03	
			Pdh	kW	5.7		
			PERd	%	281.2		
		Tol (temperature operating limit)	COPd			2.16	
			Pdh	kW	10.1		
			PERd	%	86.4		
			TOL	°C	-22		
		G	COPd			35	
			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		2,885		
		s (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		
			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)	COPd			4.95	
			Pdh	kW	9.8		
			PERd	%	198.0		
			Tbiv	°C	5		
		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)DB/WB 7°C/6°C - LWC 35°C (dT=5°C) with pump at full speed |

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

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

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

Technical Specifications	ETBX16D6V + EPRA14DV3	ETBX16D6V + EPRA16DV3	ETBX16D6V + EPRA18DV3
Indoor unit		ETBX16DA6V	

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Technical Specifications					ETBX16D6V + EPRA14DV3	ETBX16D6V + EPRA16DV3	ETBX16D6V + EPRA18DV3	
Outdoor unit					EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)	3.90 (1)	4.16 (1)		
	Nom.		kW	5.69 (2)	9.00 (2)			
	Max.		kW	8.75 (1)	10.00 (1)	11.25 (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	0.74 (5)	0.82 (5)	0.88 (5)		
		Nom.	kW	1.22 (2)	1.80 (2)			
		Max.	kW	1.86 (5)	2.13 (5)	2.40 (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	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 <sup>3</sup> /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			
	Psup			kW	6.0			
	Integrated supplementary heater	Type of energy input				Electrical		
Space heating	Average climate water outlet 55°C	General	Annual energy consumption		kWh	7,134		
			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	
				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	

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Technical Specifications				ETBX16D6V + EPRA14DV3	ETBX16D6V + EPRA16DV3	ETBX16D6V + 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		
	Rated heat output	TOL	°C		-10		
		WTOL	°C		55		
	Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)	kW		0.3		
		COPd			2.19		
		Pdh	kW		12.2		
		PERd	%		87.6		
	Cold climate water outlet 55°C	General	Tbiv	°C		-10	
			Annual energy consumption	kWh		9,609	
			s (Seasonal space heating efficiency)	%		125	
			Prated at -22°C	kW		13	
A Condition (-7°CDB/-8°CWB)		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			
G Condition (-15°CDB/-)	PERd	%		244.8			
	COPd			1.65			
	Pdh	kW		10.6			
	PERd	%		66.0			
Tbiv (bivalent temperature)	TOL	°C		-22			
	WTOL	°C		55			
	COPd			2.17			
	Pdh	kW		10.3			
Rated heat output	PERd	%		86.8			
	COPd			1.90			
	Pdh	kW		11.0			
Warm climate water outlet	PERd	%		76.0			
	Tbiv	°C		-18			
	Rated heat output	Psup (at Tdesign -22°C)	kW		1.9		
	General	Annual energy consumption	kWh		3,997		

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Technical Specifications				ETBX16D6V + EPRA14DV3	ETBX16D6V + EPRA16DV3	ETBX16D6V + EPRA18DV3		
Space heating 	Warm climate water outlet 55°C	General	s (Seasonal space heating efficiency)			164		
			Prated at 2°C	kW			13	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	Qhe Annual energy consumption (GCV)	Gj			14
				COPd				1.0
				Pdh	kW			2.45
				PERd	%			10.0
								98.0
								1.0
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				3.69
				Pdh	kW			7.9
				PERd	%			147.6
								1.0
								5.39
								5.9
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	PERd	%			215.6
				COPd				3.27
				Pdh	kW			9.9
				PERd	%			130.8
		Tbiv (bivalent temperature)	Cdh (Degradation heating)	Tbiv	°C			5
Water outlet 45°C	H Condition (-2°C/-)	Max.	kW	11.1		11.8		
Average climate water outlet 35°C	General	SCOP				4.57		
		Annual energy consumption	kWh			5,649		
		s (Seasonal space heating efficiency)	%			180		
		Prated at -10°C	kW			13		
		Qhe Annual energy consumption (GCV)	Gj			20		
		Seasonal space heating eff. class				A+++		
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	COPd				3.12
				Pdh	kW			11.1
				PERd	%			124.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0
				Pdh	kW			4.44
				PERd	%			6.7
								177.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0
				Pdh	kW			5.84
				PERd	%			5.7
								233.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd				1.0
				Pdh	kW			7.40
				PERd	%			6.0
						296.0		
Tol (temperature operating limit)	Cdh (Degradation heating)	COPd				2.76		
		Pdh	kW			11.1		
		PERd	%			110.4		
		TOL	°C			-10		
		WTOL	°C			35		
Tbiv (bivalent temperature)	Cdh (Degradation heating)	COPd				3.12		
		Pdh	kW			11.1		
		PERd	%			124.8		
						-7		

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Technical Specifications				ETBX16D6V + EPRA14DV3	ETBX16D6V + EPRA16DV3	ETBX16D6V + EPRA18DV3
Space heating 	Average climate water outlet	Rated heat output	Psup (at Tdesign -10°C) kW		1.4	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,370	
			s (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	
			Pdh kW		4.9	
		PERd %		202.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
		COPd		6.10		
		Pdh kW		5.3		
		PERd %		244.0		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
		COPd		7.03		
		Pdh kW		5.7		
		PERd %		281.2		
	Tol (temperature operating limit)	COPd		2.16		
		Pdh kW		10.1		
		PERd %		86.4		
		TOL °C		-22		
		WTOL °C		35		
	G Condition (-15°CDB/-)	COPd		2.62		
		Pdh kW		10.7		
	PERd %		104.8			
Tbiv (bivalent temperature)	COPd		2.62			
	Pdh kW		10.7			
	PERd %		104.8			
	Tbiv °C		-15			
Rated heat output	Psup (at Tdesign -22°C)	kW	2.4			
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,792		
		s (Seasonal space heating efficiency) %		236		
		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		
		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)	COPd		4.95		
		Pdh kW		9.8		
		PERd %		198.0		
		Tbiv °C		5		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
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) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

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


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



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

Technical Specifications				ETBX16D9W + EPRA14DV3	ETBX16D9W + EPRA16DV3	ETBX16D9W + EPRA18DV3	
Indoor unit				ETBX16DA9W			
Outdoor unit				EPRA14DAV3	EPRA16DAV3	EPRA18DAV3	
Heating capacity	Min.	kW	3.50 (1)	3.90 (1)	4.16 (1)		
	Nom.	kW	5.69 (2)	9.00 (2)	11.25 (1)		
	Max.	kW	8.75 (1)	10.00 (1)	11.25 (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	0.74 (5)	0.82 (5)	0.88 (5)	
		Nom.	kW	1.22 (2)	1.80 (2)	1.80 (2)	
	Cooling	Max.	kW	1.86 (5)	2.13 (5)	2.40 (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)	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			
	LW(A) Sound power level	Indoor	dB(A)	44.0			
Outdoor		dB(A)	54.0				
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Air to water unit	Rated airflow (outdoor)	m <sup>3</sup> /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			
		Psup	kW	9.0			
		Type of energy input	Electrical				
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,134		
			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	
				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	

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Technical Specifications				ETBX16D9W + EPRA14DV3	ETBX16D9W + EPRA16DV3	ETBX16D9W + 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	
	Rated heat output	TOL	°C		-10		
		WTOL	°C		55		
	Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)	kW		0.3		
		COPd			2.19		
		Pdh	kW		12.2		
		PERd	%		87.6		
	Cold climate water outlet 55°C	General	Tbiv	°C		-10	
			Annual energy consumption	kWh		9,609	
			s (Seasonal space heating efficiency)	%		125	
			Prated at -22°C	kW		13	
A Condition (-7°CDB/-8°CWB)		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		
G Condition (-15°CDB/-)	COPd			1.65			
	Pdh	kW		10.6			
	PERd	%		66.0			
	TOL	°C		-22			
Tbiv (bivalent temperature)	WTOL	°C		55			
	COPd			2.17			
	Pdh	kW		10.3			
	PERd	%		86.8			
Rated heat output	COPd			1.90			
	Pdh	kW		11.0			
	PERd	%		76.0			
	Tbiv	°C		-18			
Warm climate water outlet	Psup (at Tdesign -22°C)	kW		1.9			
	General	Annual energy consumption	kWh		3,997		

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Technical Specifications				ETBX16D9W + EPRA14DV3	ETBX16D9W + EPRA16DV3	ETBX16D9W + EPRA18DV3	
Space heating 	Warm climate water outlet 55°C	General	s (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)	COPd		1.0	
				Pdh	kW	2.45	
				PERd	%	10.0	
						98.0	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0	
				Pdh	kW	3.69	
				PERd	%	7.9	
						147.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0	
				Pdh	kW	5.39	
				PERd	%	5.9	
						215.6	
		Tbiv (bivalent temperature)	COPd			3.27	
				Pdh	kW	9.9	
				PERd	%	130.8	
				Tbiv	°C	5	
		Water outlet 45°C	H Condition (-2°C/-)	Max.	kW	11.1	
Average climate water outlet 35°C	General	SCOP		4.57			
		Annual energy consumption	kWh	5,649			
		s (Seasonal space heating efficiency)	%	180			
		Prated at -10°C	kW	13			
		Qhe Annual energy consumption (GCV)	Gj	20			
		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)	COPd		1.0	
				Pdh	kW	4.44	
				PERd	%	6.7	
						177.6	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0	
				Pdh	kW	5.84	
				PERd	%	5.7	
						233.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0	
				Pdh	kW	7.40	
PERd	%			6.0			
				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			

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Technical Specifications				ETBX16D9W + EPRA14DV3	ETBX16D9W + EPRA16DV3	ETBX16D9W + EPRA18DV3
Space heating 	Average climate water outlet	Rated heat output	Psup (at Tdesign -10°C) kW		1.4	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,370	
			s (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	
			Pdh	kW	4.9	
	PERd	%	202.8			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
	COPd		6.10			
	Pdh	kW	5.3			
	PERd	%	244.0			
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		
	COPd		7.03			
	Pdh	kW	5.7			
	PERd	%	281.2			
	Tol (temperature operating limit)	COPd		2.16		
	Pdh	kW	10.1			
	PERd	%	86.4			
	TOL	°C	-22			
	WTOL	°C	35			
	G Condition (-15°CDB/-)	COPd		2.62		
	Pdh	kW	10.7			
PERd	%	104.8				
Tbiv (bivalent temperature)	COPd		2.62			
Pdh	kW	10.7				
PERd	%	104.8				
Tbiv	°C	-15				
Rated heat output	Psup (at Tdesign -22°C)	kW	2.4			
Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,792		
		s (Seasonal space heating efficiency) %		236		
		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		
		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)	COPd		4.95	
		Pdh	kW	9.8		
		PERd	%	198.0		
		Tbiv	°C	5		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
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) Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |

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

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

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

Technical Specifications				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3		
Indoor unit				ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V		
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3			
Heating capacity	Min.	kW	3.50 (1)		3.90 (1)		4.16 (1)				
	Nom.	kW	5.69 (2)		9.00 (2)						
	Max.	kW	8.75 (1)		10.00 (1)		11.25 (1)				
Power input	Heating	Min.	0.74 (3)		0.82 (3)		0.88 (3)				
		Nom.	1.22 (2)		1.80 (2)						
		Max.	1.86 (3)		2.13 (3)		2.40 (3)				
	Domestic hot water from 10°C	Nom.	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		Supplier/Manufacturer details	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium Daikin Europe N.V.						
Product description	Air-to-water heat pump		Yes								
	Brine-to-water heat pump		No								
	Heat pump combination heater		Yes								
	Low-temperature heat pump		No								
	Supplementary heater integrated		Yes								
	Water-to-water heat pump		No								
LW(A) Sound power level	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			
	Rated airflow (outdoor)	m <sup>3</sup> /h	3,918				3,960				
Space heating general	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		
		Integrated supplementary heater	Psup	kW							6.0
Domestic hot water heating climate	Average climate	Type of energy input		Electrical							
		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		
		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
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							

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Technical Specifications				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3	
Domestic hot water heating	Cold climate	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
			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				
				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					
			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						

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Technical Specifications				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3	
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Pdh	kW					5.8	
			PERd	%					146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
			PERd	%						187.6
		D Condition (12°CDB/11°CWB)	COPd							6.12
			Pdh	kW						6.2
			PERd	%						244.8
		Tol (temperature operating limit)	COPd							1.65
	Pdh		kW						10.6	
	PERd		%						66.0	
	TOL		°C						-22	
	G	COPd							55	
		COPd							2.17	
		Pdh	kW						10.3	
	Condition (-15°CDB/-)	PERd							86.8	
		COPd							1.90	
		Pdh	kW						11.0	
	Tbiv (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					4,090	
		s (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	
		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	
		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	H Condition (2°C / -)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP							4.51	
		Annual energy consumption		kWh					5,726	
		s (Seasonal space heating efficiency)		%					177	
		Prated at -10°C		kW					13	
		Qhe Annual energy consumption (GCV)		Gj					21	
		Seasonal space heating eff. class							A+++	
A Condition (-7°CDB/-8°CWB)	COPd							3.12		

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Technical Specifications				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3		
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	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		%				233.6		
			TOL		°C				-10		
			WTOL		°C				35		
			COPd						2.76		
			Pdh		kW				11.1		
		Tbiv (bivalent temperature)	PERd		%				110.4		
			Tbiv		°C				-7		
			COPd						3.12		
		Rated heat output	Psup (at Tdesign -10°C)		kW				1.4		
			PERd		%				124.8		
		Cold climate water outlet 35°C	General	Annual energy consumption		kWh			7,417		
				s (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		
	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		
	COPd							2.16			
Tol (temperature operating limit)	Pdh			kW				10.1			
	PERd			%				86.4			
	TOL			°C				-22			
	WTOL			°C				35			
G Condition (+15°CDB/-)	COPd						2.62				
	Pdh		kW				10.7				



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Technical Specifications				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3
Space heating 	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	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	2,885				
			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				
		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)	COPd		4.95				
			Pdh	kW	9.8				
PERd			%	198.0					
Tbiv	°C		5						
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				ETVH16S18D6V + EPRA14DV3	ETVH16S23D6V + EPRA14DV3	ETVH16S18D6V + EPRA16DV3	ETVH16S23D6V + EPRA16DV3	ETVH16S18D6V + EPRA18DV3	ETVH16S23D6V + EPRA18DV3	
Indoor unit				ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)		
	Nom.		kW	5.69 (2)		9.00 (2)				
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (1)		
Power input	Heating	Min.	kW	0.74 (3)		0.82 (3)		0.88 (3)		
		Nom.	kW	1.22 (2)		1.80 (2)				
		Max.	kW	1.86 (3)		2.13 (3)		2.40 (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				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						
		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						

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Technical Specifications			ETVH16S18D6VG + EPRA14DV3	ETVH16S23D6VG + EPRA14DV3	ETVH16S18D6VG + EPRA16DV3	ETVH16S23D6VG + EPRA16DV3	ETVH16S18D6VG + EPRA18DV3	ETVH16S23D6VG + EPRA18DV3			
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)	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	6.0								
		Type of energy input	Electrical								
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	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			
		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		
	Cold climate	Water heating energy efficiency class	A								
			AEC (Annual electricity consumption)	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		
			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	
Domestic hot water heating 	Cold climate	Reference hot water temperature	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)	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	
				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				ETVH16S18D6VG + EPRA14DV3	ETVH16S23D6VG + EPRA14DV3	ETVH16S18D6VG + EPRA16DV3	ETVH16S23D6VG + EPRA16DV3	ETVH16S18D6VG + EPRA18DV3	ETVH16S23D6VG + EPRA18DV3	
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh	7,211						
			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					
				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							
		s (Seasonal space heating efficiency) %	125							
		Prated at -22°C kW	13							
		Qhe Annual energy consumption (GCV) GJ	35							
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)	1.0						
			COPd	2.74						
			Pdh kW	7.5						
			PERd %	109.6						
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0						
			COPd	3.67						

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Technical Specifications				ETVH16S18D6VG + EPRA14DV3	ETVH16S23D6VG + EPRA14DV3	ETVH16S18D6VG + EPRA16DV3	ETVH16S23D6VG + EPRA16DV3	ETVH16S18D6VG + EPRA18DV3	ETVH16S23D6VG + EPRA18DV3	
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Pdh	kW					5.8	
			PERd	%					146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
			PERd	%						187.6
		D Condition (12°CDB/11°CWB)	COPd							6.12
			Pdh	kW						6.2
			PERd	%						244.8
		Tol (temperature operating limit)	COPd							1.65
	Pdh		kW						10.6	
	PERd		%						66.0	
	TOL		°C						-22	
	G	COPd							55	
		COPd							2.17	
		Pdh	kW						10.3	
	Condition (-15°CDB/-)	PERd							86.8	
		COPd							1.90	
		Pdh	kW						11.0	
	Tbiv (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					4,090	
		s (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	
		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		
	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	H Condition (2°C/-)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP							4.51	
		Annual energy consumption		kWh					5,726	
		s (Seasonal space heating efficiency)		%						177
		Prated at -10°C		kW						13
		Qhe Annual energy consumption (GCV)		Gj						21
		Seasonal space heating eff. class								A+++
A Condition (-7°CDB/-8°CWB)	COPd							3.12		

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Technical Specifications				ETVH16S18D6VG + EPRA14DV3	ETVH16S23D6VG + EPRA14DV3	ETVH16S18D6VG + EPRA16DV3	ETVH16S23D6VG + EPRA16DV3	ETVH16S18D6VG + EPRA18DV3	ETVH16S23D6VG + EPRA18DV3	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	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	
		PERd	%						202.8	
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)							1.0	
		COPd							6.10	
		Pdh	kW						5.3	
		PERd	%						244.0	
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)							1.0	
		COPd							7.03	
		Pdh	kW						5.7	
		PERd	%						281.2	
	Tol (temperature operating limit)	COPd							2.16	
Pdh		kW						10.1		
PERd		%						86.4		
TOL		°C						-22		
WTOL		°C						35		
G Condition (+15°CDB/-)	COPd							2.62		
	Pdh	kW						10.7		

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Technical Specifications				ETVH16S18D6VG + EPRA14DV3	ETVH16S23D6VG + EPRA14DV3	ETVH16S18D6VG + EPRA16DV3	ETVH16S23D6VG + EPRA16DV3	ETVH16S18D6VG + EPRA18DV3	ETVH16S23D6VG + EPRA18DV3
Space heating	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	PERd	%	104.8				
			Tbiv (bivalent temperature)	COPd	2.62				
		Rated heat output	Pdh	kW	10.7				
			PERd	%	104.8				
		Tbiv	°C	-15					
		Psup (at Tdesign -22°C)	kW	2.4					
	Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,885				
			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				
		C Condition (7°CDB/6°CWB)	COPd	3.67					
			Pdh	kW	9.8				
			PERd	%	146.8				
Cdh (Degradation heating)			1.0						
Tbiv (bivalent temperature)		COPd	5.60						
		Pdh	kW	7.9					
		PERd	%	224.0					
		COPd	4.95						
D Condition (12°CDB/11°CWB)		Pdh	kW	9.8					
		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)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				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3
Indoor unit				ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)	
	Nom.		kW	5.69 (2)		9.00 (2)			
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (1)	
Power input	Heating	Min.	kW	0.74 (3)		0.82 (3)		0.88 (3)	
		Nom.	kW	1.22 (2)		1.80 (2)			
		Max.	kW	1.86 (3)		2.13 (3)		2.40 (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			Supplier/Manufacturer details				
			Name and address						
			Name or trademark						
			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
			Daikin Europe N.V.						
			Product description						
			Air-to-water heat pump						
			Brine-to-water heat pump						
			Heat pump combination heater						
			Low-temperature heat pump						
			Supplementary heater integrated						
			Water-to-water heat pump						
			LW(A) Sound power level						
			Indoor						
			dB(A)						
			44.0						

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Technical Specifications			ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3	
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)	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	9.0						
		Type of energy input	Electrical						
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	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	
		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
		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						
Domestic hot water heating 	Cold climate	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	
	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				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,211			
			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							1.0
					Pdh kW							2.47
					PERd %							11.2
												98.8
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.56
					PERd %							6.9
												142.4
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.44
					PERd %							6.9
												177.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.72
					PERd %							6.2
												228.8
			Tol (temperature operating limit)	COPd	Pdh kW							2.19
					PERd %							12.2
TOL °C									87.6			
WTOL °C									-10			
Rated heat output Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)	COPd							0.3			
		Pdh kW							2.19			
		PERd %							12.2			
		Tbiv °C							87.6			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,654			
		s (Seasonal space heating efficiency) %							125			
		Prated at -22°C kW							13			
		Qhe Annual energy consumption (GCV) Gj							35			
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0	
				Pdh kW							2.74	
				PERd %							7.5	
											109.6	
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0	
											3.67	



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Technical Specifications				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3	
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Pdh	kW					5.8	
			PERd	%					146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
			PERd	%						187.6
		D Condition (12°CDB/11°CWB)	COPd							6.12
			Pdh	kW						6.2
			PERd	%						244.8
		Tol (temperature operating limit)	COPd							1.65
	Pdh		kW						10.6	
	PERd		%						66.0	
	TOL		°C						-22	
	G	COPd							55	
		COPd							2.17	
		Pdh	kW						10.3	
	Condition (-15°CDB/-)	PERd							86.8	
		COPd							1.90	
		Pdh	kW						11.0	
	Tbiv (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					4,090	
		s (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	
		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	
		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	H Condition (2°C/-)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP							4.51	
		Annual energy consumption		kWh					5,726	
		s (Seasonal space heating efficiency)		%						177
		Prated at -10°C		kW						13
		Qhe Annual energy consumption (GCV)		Gj						21
		Seasonal space heating eff. class								A+++
A Condition (-7°CDB/-8°CWB)	COPd							3.12		

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Technical Specifications				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3	
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	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	
	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
s (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	
		CdH (Degradation heating)							1.0	
B Condition (2°CDB/1°CWB)		COPd							5.07	
		Pdh	kW						4.9	
		PERd	%						202.8	
		CdH (Degradation heating)							1.0	
C Condition (7°CDB/6°CWB)		COPd							6.10	
		Pdh	kW						5.3	
		PERd	%						244.0	
		CdH (Degradation heating)							1.0	
D Condition (12°CDB/11°CWB)		COPd							7.03	
		Pdh	kW						5.7	
		PERd	%						281.2	
		COPd							2.16	
Tol (temperature operating limit)		Pdh	kW						10.1	
		PERd	%						86.4	
		TOL	°C						-22	
		WTOL	°C						35	
G Condition (+15°CDB/-)	COPd							2.62		
	Pdh	kW						10.7		

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Technical Specifications				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3
Space heating 	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	PERd	%	104.8				
			Tbiv (bivalent temperature)	COPd	2.62				
		Rated heat output	Pdh	kW	10.7				
			PERd	%	104.8				
			Tbiv	°C	-15				
	Warm climate water outlet 35°C	General	Psup (at Tdesign -22°C)	kW	2.4				
			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				
			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)	COPd	4.95							
	Pdh	kW	9.8						
	PERd	%	198.0						
	Tbiv	°C	5						
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				ETVH16S18D9W + EPRA14DV3	ETVH16S23D9W + EPRA14DV3	ETVH16S18D9W + EPRA16DV3	ETVH16S23D9W + EPRA16DV3	ETVH16S18D9W + EPRA18DV3	ETVH16S23D9W + EPRA18DV3	
				ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W	
Indoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)		
	Nom.		kW	5.69 (2)		9.00 (2)				
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (1)		
Power input	Heating	Min.	kW	0.74 (3)		0.82 (3)		0.88 (3)		
		Nom.	kW	1.22 (2)		1.80 (2)				
		Max.	kW	1.86 (3)		2.13 (3)		2.40 (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				Grundfos UPMXL GEO 25-125 130 PWM						
Nominal ESP unit		Heating	kPa	111.2 (5)		97.4 (5)				
Water side Heat exchanger		Water flow rate	Heating Nom.	l/min	16.3 (2)		25.8 (2)			
General				Supplier/Manufacturer details						
				Name and address						
				Name or trademark						
				Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
				Daikin Europe N.V.						
				Product description						
				Air-to-water heat pump						
				Brine-to-water heat pump						
				Heat pump combination heater						
				Low-temperature heat pump						
				Supplementary heater integrated						
				Water-to-water heat pump						
				LW(A) Sound power level						
				Indoor		dB(A)		44.0		

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Technical Specifications			ETVH16S18D9WG + EPRA14DV3	ETVH16S23D9WG + EPRA14DV3	ETVH16S18D9WG + EPRA16DV3	ETVH16S23D9WG + EPRA16DV3	ETVH16S18D9WG + EPRA18DV3	ETVH16S23D9WG + EPRA18DV3	
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)	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	9.0						
		Type of energy input	Electrical						
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	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	
		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
		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						
Domestic hot water heating 	Cold climate	Stand-by power input	W	36.4	54.4	36.4	54.4	36.4	54.4
Warm climate	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
		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				ETVH16S18D9WG + EPRA14DV3	ETVH16S23D9WG + EPRA14DV3	ETVH16S18D9WG + EPRA16DV3	ETVH16S23D9WG + EPRA16DV3	ETVH16S18D9WG + EPRA18DV3	ETVH16S23D9WG + EPRA18DV3			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,211			
			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							1.0
					Pdh kW							2.47
					PERd %							11.2
												98.8
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.56
					PERd %							6.9
												142.4
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.44
					PERd %							6.9
												177.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.72
					PERd %							6.2
												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 Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)								0.3			
		COPd							2.19			
		Pdh kW							12.2			
		PERd %							87.6			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,654			
			s (Seasonal space heating efficiency) %							125		
			Prated at -22°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							35		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							2.74
					PERd %							7.5
												109.6
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
												3.67

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Technical Specifications				ETVH16S18D9WG + EPRA14DV3	ETVH16S23D9WG + EPRA14DV3	ETVH16S18D9WG + EPRA16DV3	ETVH16S23D9WG + EPRA16DV3	ETVH16S18D9WG + EPRA18DV3	ETVH16S23D9WG + EPRA18DV3	
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Pdh	kW					5.8	
			PERd	%					146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
			PERd	%						187.6
		D Condition (12°CDB/11°CWB)	COPd							6.12
			Pdh	kW						6.2
			PERd	%						244.8
		Tol (temperature operating limit)	COPd							1.65
	Pdh		kW						10.6	
	PERd		%						66.0	
	TOL		°C						-22	
	G	COPd							55	
		COPd							2.17	
		Pdh	kW						10.3	
	Condition (-15°CDB/-)	PERd							86.8	
		Tbiv (bivalent temperature)	COPd							1.90
			Pdh	kW						11.0
			PERd	%						76.0
Rated heat output	Tbiv							-18		
	Psup (at Tdesign -22°C)							1.9		
Warm climate water outlet 55°C	General	Annual energy consumption							4,090	
		s (Seasonal space heating efficiency)							160	
		Prated at 2°C							13	
		Qhe Annual energy consumption (GCV)							15	
		Gj								
	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	
		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	H Condition (2°C/-)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP							4.51	
		Annual energy consumption							5,726	
		s (Seasonal space heating efficiency)							177	
		Prated at -10°C							13	
		Qhe Annual energy consumption (GCV)							21	
		Gj								
		Seasonal space heating eff. class							A+++	
A Condition (-7°CDB/-8°CWB)	COPd							3.12		

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Technical Specifications				ETVH16S18D9WG + EPRA14DV3	ETVH16S23D9WG + EPRA14DV3	ETVH16S18D9WG + EPRA16DV3	ETVH16S23D9WG + EPRA16DV3	ETVH16S18D9WG + EPRA18DV3	ETVH16S23D9WG + EPRA18DV3	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	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	
		PERd	%						202.8	
	C Condition (7°CDB/6°CWB)	CdH (Degradation heating)							1.0	
		COPd							6.10	
		Pdh	kW						5.3	
		PERd	%						244.0	
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)							1.0	
		COPd							7.03	
		Pdh	kW						5.7	
		PERd	%						281.2	
	Tol (temperature operating limit)	COPd							2.16	
		Pdh	kW						10.1	
		PERd	%						86.4	
		TOL	°C						-22	
		WTOL	°C						35	
G Condition (+15°CDB/-)	COPd							2.62		
	Pdh	kW						10.7		

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Technical Specifications					ETVH16S18D9WG + EPRA14DV3	ETVH16S23D9WG + EPRA14DV3	ETVH16S18D9WG + EPRA16DV3	ETVH16S23D9WG + EPRA16DV3	ETVH16S18D9WG + EPRA18DV3	ETVH16S23D9WG + EPRA18DV3	
Space heating	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	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	2,885					
				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						
			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)		COPd	4.95								
		Pdh	kW	9.8							
	PERd	%	198.0								
	Tbiv	°C	5								
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					ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3		
Indoor unit					ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V		
Outdoor unit					EPRA14DAV3		EPRA16DAV3		EPRA18DAV3			
Heating capacity	Min.			kW	3.50 (1)		3.90 (1)		4.16 (1)			
	Nom.			kW	5.69 (2)		9.00 (2)					
	Max.			kW	8.75 (1)		10.00 (1)		11.25 (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	0.74 (5)		0.82 (5)		0.88 (5)		
		Nom.			kW	1.22 (2)		1.80 (2)				
		Max.			kW	1.86 (5)		2.13 (5)		2.40 (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)	
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 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)



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Technical Specifications			ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3	
General	Supplier/ Manufacturer	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)	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	6.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	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	
		wh (water heating efficiency)	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	52.5						
		Stand-by power input	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class	A						
		Cold climate	AEC (Annual electricity consumption)	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		
Domestic hot water heating	Cold climate	wh (water heating efficiency)	94	92	94	92	94	92	
		Qelec (Daily electricity consumption)	5.170	8.560	5.170	8.560	5.170	8.560	
		Reference hot water temperature	52.5						
	Warm climate	Stand-by power input	36.4	54.4	36.4	54.4	36.4	54.4	
		AEC (Annual electricity consumption)	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	
		wh (water heating efficiency)	122	121	122	121	122	121	
		Qelec (Daily electricity consumption)	4.020	6.570	4.020	6.570	4.020	6.570	
		Reference hot water temperature	52.5						
Stand-by power input	32.9	46.1	32.9	46.1	32.9	46.1			

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Technical Specifications				ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3			
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,134			
		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)	CdH							1.0	
		COPd									2.47	
				PdH	kW						11.2	
				PERd	%						98.8	
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	CdH						1.0		
		COPd									3.56	
				PdH	kW						6.9	
				PERd	%						142.4	
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	CdH							1.0	
				COPd							4.44	
					PdH	kW						6.9
					PERd	%						177.6
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	CdH							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 Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)		kW						0.3			
		COPd							2.19			
			PdH	kW						12.2		
			PERd	%						87.6		
Cold climate water outlet 55°C	General	Annual energy consumption	kWh						9,609			
				s (Seasonal space heating efficiency)	%						125	
						Prated at -22°C	kW					13
						Qhe Annual energy consumption (GCV)	Gj					35
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	CdH							1.0	
				COPd								2.74
					PdH	kW						7.5

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Technical Specifications				ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3
Space heating 	Cold climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	PERd	%			109.6		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
			COPd				3.67		
			Pdh	kW			5.8		
			PERd	%			146.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0		
			COPd				4.69		
			Pdh	kW			5.6		
			PERd	%			187.6		
		D Condition (12°CDB/11°CWB)	COPd				6.12		
			Pdh	kW			6.2		
			PERd	%			244.8		
	Tol (temperature operating limit)	COPd				1.65			
		Pdh	kW			10.6			
		PERd	%			66.0			
		TOL	°C			-22			
	G Condition (-15°CDB/-)	WTOL	°C			55			
		COPd				2.17			
	Tbiv (bivalent temperature)	Pdh	kW			10.3			
		PERd	%			86.8			
		COPd				1.90			
		Pdh	kW			11.0			
	Rated heat output	PERd	%			76.0			
		Tbiv	°C			-18			
Warm climate water outlet 55°C	General	Psup (at Tdesign -22°C)	kW			1.9			
		Annual energy consumption	kWh			3,997			
		s (Seasonal space heating efficiency)	%			164			
		Prated at 2°C	kW			13			
	B Condition (2°CDB/1°CWB)	Qhe Annual energy consumption (GCV)	Gj			14			
		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				
Tbiv (bivalent temperature)	PERd	%			215.6				
	COPd				3.27				
	Pdh	kW			9.9				
	PERd	%			130.8				
Water outlet 45°C	H Condition (2°C/-)	Tbiv	°C			5			
		Max.	kW		11.1		11.8		
Average climate water outlet 35°C	General	SCOP				4.57			
		Annual energy consumption	kWh			5,649			
		s (Seasonal space heating efficiency)	%			180			
		Prated at -10°C	kW			13			

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Technical Specifications				ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3	
Space heating	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj					20	
			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)	COPd							296.0
				Pdh	kW					2.76
				PERd	%					11.1
				TOL	°C					110.4
		Tbiv (bivalent temperature)	COPd							-10
				Pdh	kW					35
PERd	%							3.12		
Tbiv	°C							11.1		
Rated heat output	Psup (at Tdesign -10°C)		kW					124.8		
								-7		
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
				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)							202.8
				COPd						1.0
				Pdh	kW					6.10
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							5.3
				COPd						244.0
				Pdh	kW					1.0
		Tol (temperature operating limit)	COPd							7.03
				Pdh	kW					5.7
				PERd	%					281.2
				TOL	°C					2.16
Tbiv (bivalent temperature)	COPd							10.1		
		Pdh	kW					86.4		
		PERd	%					-22		
		TOL	°C							

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Technical Specifications				ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3		
Space heating 	Cold climate water outlet 35°C	Tol (temperature operating limit)	WTOL °C	35							
		G	COPd	2.62							
		Condition (-15°CDB/-)	Pdh kW	10.7							
		Tbiv (bivalent temperature)	PERd %	104.8							
			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					
	s (Seasonal space heating efficiency)			%	236						
	Prated at 2°C			kW	13						
	Qhe Annual energy consumption (GCV)			Gj	10						
	B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)	COPd		1.0					
				Pdh kW		3.67					
				PERd %		9.8					
				PERd %		146.8					
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd		1.0					
				Pdh kW		5.60					
		PERd %			7.9						
PERd %				224.0							
Tbiv (bivalent temperature)	COPd	COPd		4.95							
		Pdh kW		9.8							
		PERd %		198.0							
		Tbiv °C		5							
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0							
		Pdh kW		7.60							
		PERd %		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				ETVX16S18D6V + EPRA14DV3	ETVX16S23D6V + EPRA14DV3	ETVX16S18D6V + EPRA16DV3	ETVX16S23D6V + EPRA16DV3	ETVX16S18D6V + EPRA18DV3	ETVX16S23D6V + EPRA18DV3
Indoor unit				ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)	
	Nom.		kW	5.69 (2)			9.00 (2)		
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (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	0.74 (5)		0.82 (5)		0.88 (5)	
		Nom.	kW	1.22 (2)			1.80 (2)		
		Max.	kW	1.86 (5)		2.13 (5)		2.40 (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)			
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)	

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Technical Specifications				ETVX16S18D6VG + EPRA14DV3	ETVX16S23D6VG + EPRA14DV3	ETVX16S18D6VG + EPRA16DV3	ETVX16S23D6VG + EPRA16DV3	ETVX16S18D6VG + EPRA18DV3	ETVX16S23D6VG + EPRA18DV3		
General	Supplier/ Manufacturer	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 <sup>3</sup> /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		
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min		
		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	
		Domestic hot water heating	Cold climate	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		
	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				ETVX16S18D6VG + EPRA14DV3	ETVX16S23D6VG + EPRA14DV3	ETVX16S18D6VG + EPRA16DV3	ETVX16S23D6VG + EPRA16DV3	ETVX16S18D6VG + EPRA18DV3	ETVX16S23D6VG + EPRA18DV3			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,134			
			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)	COPd							1.0
					Pdh kW							2.47
					PERd %							11.2
												98.8
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.56
					PERd %							6.9
												142.4
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.44
					PERd %							6.9
												177.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.72
					PERd %							6.2
												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)								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			
		s (Seasonal space heating efficiency) %							125			
		Prated at -22°C kW							13			
		Qhe Annual energy consumption (GCV) GJ							35			
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0	
				Pdh kW							2.74	
											7.5	

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Technical Specifications				ETVX16S18D6VG + EPRA14DV3	ETVX16S23D6VG + EPRA14DV3	ETVX16S18D6VG + EPRA16DV3	ETVX16S23D6VG + EPRA16DV3	ETVX16S18D6VG + EPRA18DV3	ETVX16S23D6VG + EPRA18DV3
Space heating	Cold climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	PERd	%					109.6
			Cdh (Degradation heating)						1.0
		COPd							3.67
		Pdh		kW					5.8
		PERd		%					146.8
		B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)					1.0
		COPd							4.69
		Pdh		kW					5.6
		PERd		%					187.6
		D Condition (7°CDB/6°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
		s (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	
	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	
	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	SCOP						4.57	
		Annual energy consumption		kWh				5,649	
		s (Seasonal space heating efficiency)		%				180	
		Prated at -10°C		kW				13	



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Technical Specifications				ETVX16S18D6VG + EPRA14DV3	ETVX16S23D6VG + EPRA14DV3	ETVX16S18D6VG + EPRA16DV3	ETVX16S23D6VG + EPRA16DV3	ETVX16S18D6VG + EPRA18DV3	ETVX16S23D6VG + EPRA18DV3	
Space heating	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj					20	
			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		
Tbiv (bivalent temperature)	COPd							35		
		Pdh	kW					3.12		
		PERd	%					11.1		
		Tbiv	°C					124.8		
Rated heat output	Psup (at Tdesign -10°C)		kW					-7		
								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	Qhe Annual energy consumption (GCV)		kW					13
					Gj					27
		A Condition (-7°CDB/-8°CWB)	COPd							3.50
				Pdh	kW					8.0
				PERd	%					140.0
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
				COPd						5.07
				Pdh	kW					4.9
				PERd	%					202.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
				COPd						6.10
				Pdh	kW					5.3
				PERd	%					244.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
				COPd						7.03
				Pdh	kW					5.7
				PERd	%					281.2
		Tol (temperature operating limit)	COPd							2.16
Pdh	kW							10.1		
PERd	%							86.4		
TOL	°C							-22		

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Technical Specifications				ETVX16S18D6VG + EPRA14DV3	ETVX16S23D6VG + EPRA14DV3	ETVX16S18D6VG + EPRA16DV3	ETVX16S23D6VG + EPRA16DV3	ETVX16S18D6VG + EPRA18DV3	ETVX16S23D6VG + EPRA18DV3		
Space heating	Cold climate water outlet 35°C	Tol (temperature operating limit)	WTOL °C						35		
		G	COPd						2.62		
		Condition (-15°CDB/-)	Pdh kW						10.7		
		Tbiv (bivalent temperature)	PERd %						104.8		
			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
				s (Seasonal space heating efficiency)	%						236
				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										3.67	
PERd %										9.8	
										146.8	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			COPd						1.0	
				Pdh kW						5.60	
				PERd %						7.9	
										224.0	
Tbiv (bivalent temperature)	COPd									4.95	
				Pdh kW						9.8	
		PERd %						198.0			
		Tbiv °C						5			
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	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 |  
 (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				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3
Indoor unit				ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)	
	Nom.		kW	5.69 (2)			9.00 (2)		
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (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	0.74 (5)		0.82 (5)		0.88 (5)	
		Nom.	kW	1.22 (2)			1.80 (2)		
		Max.	kW	1.86 (5)		2.13 (5)		2.40 (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)			
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)	

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Technical Specifications			ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3	
General	Supplier/ Manufacturer	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)	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	9.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	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	
		wh (water heating efficiency)	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	52.5						
		Stand-by power input	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class	A						
		Cold climate	AEC (Annual electricity consumption)	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
Domestic hot water heating	Cold climate	wh (water heating efficiency)	94	92	94	92	94	92	
		Qelec (Daily electricity consumption)	5.170	8.560	5.170	8.560	5.170	8.560	
		Reference hot water temperature	52.5						
		Stand-by power input	36.4	54.4	36.4	54.4	36.4	54.4	
		Warm climate	AEC (Annual electricity consumption)	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	
	wh (water heating efficiency)		122	121	122	121	122	121	
	Qelec (Daily electricity consumption)		4.020	6.570	4.020	6.570	4.020	6.570	
		Reference hot water temperature	52.5						
	Stand-by power input	32.9	46.1	32.9	46.1	32.9	46.1		

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Technical Specifications				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,134		
		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)	CdH							1.0
				COPd							2.47
				Pdh	kW						11.2
				PERd	%						98.8
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	CdH							1.0
				COPd							3.56
				Pdh	kW						6.9
				PERd	%						142.4
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	CdH							1.0
				COPd							4.44
				Pdh	kW						6.9
				PERd	%						177.6
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	CdH							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 Tbiv (bivalent temperature)	General	Psup (at Tdesign -10°C)	kW						0.3		
		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		
		s (Seasonal space heating efficiency)	%						125		
		Prated at -22°C	kW						13		
		Qhe Annual energy consumption (GCV)	Gj						35		
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	CdH						1.0	
				COPd						2.74	
				Pdh	kW					7.5	

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Technical Specifications				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3			
Space heating 	Cold climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	PERd	%						109.6		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
				COPd							3.67	
		Pdh		kW						5.8		
		C Condition (7°CDB/6°CWB)	PERd	%						146.8		
			Cdh (Degradation heating)							1.0		
			COPd							4.69		
		D Condition (12°CDB/11°CWB)	Pdh	kW						5.6		
			PERd	%						187.6		
			COPd							6.12		
		Tol (temperature operating limit)			Pdh	kW						6.2
					PERd	%						244.8
	COPd										1.65	
	Pdh				kW						10.6	
	G Condition (-15°CDB/-)			PERd	%						66.0	
				TOL	°C						-22	
				WTOL	°C						55	
				COPd							2.17	
	Tbiv (bivalent temperature)			Pdh	kW						10.3	
				PERd	%						86.8	
				COPd							1.90	
				Pdh	kW						11.0	
	Rated heat output			PERd	%						76.0	
				Tbiv	°C						-18	
Psup (at Tdesign -22°C)				kW						1.9		
PERd				%						1.9		
Warm climate water outlet 55°C	General	Annual energy consumption	Annual energy consumption	kWh						3,997		
			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)	COPd							1.0	
				Pdh	kW						2.45	
				PERd	%						10.0	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	PERd	%						98.0	
				COPd							1.0	
				Pdh	kW						3.69	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	PERd	%						7.9	
				COPd							147.6	
	Pdh			kW						1.0		
	Tbiv (bivalent temperature)			PERd	%						5.39	
				COPd							5.9	
				Pdh	kW						215.6	
				PERd	%						3.27	
	Water outlet 45°C	H Condition (-2°C/-)	Max.	Pdh	kW	11.1		11.8				
				PERd	%						5	
				COPd							3.27	
				Pdh	kW						9.9	
	Average climate water outlet 35°C	General	SCOP	SCOP							130.8	
				Annual energy consumption	kWh						5	
				Seasonal space heating efficiency	%						4.57	
Prated at -10°C				kW						5,649		

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Technical Specifications				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3	
Space heating	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj					20	
			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)	COPd							296.0
				Pdh	kW					2.76
				PERd	%					11.1
				TOL	°C					110.4
		Tbiv (bivalent temperature)	COPd							-10
				Pdh	kW					35
PERd	%							3.12		
Tbiv	°C							11.1		
Rated heat output	Psup (at Tdesign -10°C)		kW					124.8		
								-7		
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
				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)							202.8
				COPd						1.0
				Pdh	kW					6.10
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							5.3
				COPd						244.0
				Pdh	kW					1.0
		Tol (temperature operating limit)	COPd							7.03
				Pdh	kW					5.7
				PERd	%					281.2
				TOL	°C					2.16
Tbiv (bivalent temperature)	COPd							10.1		
		Pdh	kW					86.4		
		PERd	%					-22		
		TOL	°C							

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Technical Specifications				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3	
Space heating 	Cold climate water outlet 35°C	Tol (temperature operating limit)	WTOL °C	35						
		G	COPd	2.62						
	Warm climate water outlet 35°C	Condition (-15°CDB/-)	Pdh	kW	10.7					
		Tbiv (bivalent temperature)	PERd	%	104.8					
			COPd		2.62					
		Pdh	kW	10.7						
		PERd	%	104.8						
		Tbiv	°C	-15						
	Rated heat output	Psup (at Tdesign -22°C)	kW	2.4						
	General	Annual energy consumption	kWh	2,792						
			s (Seasonal space heating efficiency)	%	236					
		Prated at 2°C	kW	13						
		Qhe Annual energy consumption (GCV)	Gj	10						
		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	1.0						
			Pdh	kW	5.60					
		PERd	%	7.9						
Tbiv (bivalent temperature)	COPd	4.95								
	Pdh	kW	9.8							
	PERd	%	198.0							
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	Tbiv	°C	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 |  
 (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				ETVX16S18D9W + EPRA14DV3	ETVX16S23D9W + EPRA14DV3	ETVX16S18D9W + EPRA16DV3	ETVX16S23D9W + EPRA16DV3	ETVX16S18D9W + EPRA18DV3	ETVX16S23D9W + EPRA18DV3
Indoor unit				ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.	kW	3.50 (1)		3.90 (1)		4.16 (1)		
	Nom.	kW	5.69 (2)		9.00 (2)				
	Max.	kW	8.75 (1)		10.00 (1)		11.25 (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	0.74 (5)		0.82 (5)		0.88 (5)	
		Nom.	kW	1.22 (2)		1.80 (2)			
		Max.	kW	1.86 (5)		2.13 (5)		2.40 (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	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 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)		

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Technical Specifications			ETVX16S18D9WG + EPRA14DV3	ETVX16S23D9WG + EPRA14DV3	ETVX16S18D9WG + EPRA16DV3	ETVX16S23D9WG + EPRA16DV3	ETVX16S18D9WG + EPRA18DV3	ETVX16S23D9WG + EPRA18DV3			
General	Supplier/ Manufacturer	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)	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	9.0								
		Type of energy input	Electrical								
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	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			
		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	
		Domestic hot water heating	Cold climate	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		
	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				ETVX16S18D9WG + EPRA14DV3	ETVX16S23D9WG + EPRA14DV3	ETVX16S18D9WG + EPRA16DV3	ETVX16S23D9WG + EPRA16DV3	ETVX16S18D9WG + EPRA18DV3	ETVX16S23D9WG + EPRA18DV3			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,134			
			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)	COPd							1.0
					Pdh kW							2.47
					PERd %							11.2
												98.8
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.56
					PERd %							6.9
												142.4
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.44
					PERd %							6.9
												177.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.72
					PERd %							6.2
												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			
		COPd							2.19			
Tbiv (bivalent temperature)	Pdh kW								12.2			
		PERd %							87.6			
		Tbiv °C							-10			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,609			
		s (Seasonal space heating efficiency) %							125			
		Prated at -22°C kW							13			
		Qhe Annual energy consumption (GCV) GJ							35			
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0	
				Pdh kW							2.74	
											7.5	

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Technical Specifications				ETVX16S18D9WG + EPRA14DV3	ETVX16S23D9WG + EPRA14DV3	ETVX16S18D9WG + EPRA16DV3	ETVX16S23D9WG + EPRA16DV3	ETVX16S18D9WG + EPRA18DV3	ETVX16S23D9WG + EPRA18DV3	
Space heating Cold climate water outlet 55°C	A Condition (-7°CDB/-8°CWB)	PERd	%	109.6						
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.67					
			Pdh	kW	5.8					
	C Condition (7°CDB/6°CWB)	PERd	%	146.8						
		Cdh (Degradation heating)		1.0						
			COPd		4.69					
			Pdh	kW	5.6					
	D Condition (12°CDB/11°CWB)	PERd	%	187.6						
		COPd		6.12						
		Pdh	kW	6.2						
		PERd	%	244.8						
	Tol (temperature operating limit)	COPd		1.65						
			Pdh	kW	10.6					
			PERd	%	66.0					
			TOL	°C	-22					
	G Condition (-15°CDB/-)	COPd		55						
			Pdh	kW	2.17					
			PERd	%	10.3					
			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						
		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					
			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						
			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	SCOP		4.57						
		Annual energy consumption	kWh	5,649						
		Seasonal space heating efficiency	%	180						
		Prated at -10°C	kW	13						

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Technical Specifications				ETVX16S18D9WG + EPRA14DV3	ETVX16S23D9WG + EPRA14DV3	ETVX16S18D9WG + EPRA16DV3	ETVX16S23D9WG + EPRA16DV3	ETVX16S18D9WG + EPRA18DV3	ETVX16S23D9WG + EPRA18DV3	
Space heating	Average climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj					20	
			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		
Tbiv (bivalent temperature)	COPd							35		
		Pdh	kW					3.12		
		PERd	%					11.1		
		Tbiv	°C					124.8		
Rated heat output	Psup (at Tdesign -10°C)		kW					-7		
								1.4		
Cold climate water outlet 35°C		General	Annual energy consumption	kWh					7,370	
			ηs (Seasonal space heating efficiency)	%					164	
		A Condition (-7°CDB/-8°CWB)	Prated at -22°C		kW					13
				Qhe Annual energy consumption (GCV)	Gj					27
				COPd						3.50
		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
				COPd						6.10
		D Condition (12°CDB/11°CWB)	Pdh		kW					5.3
				PERd	%					244.0
				Cdh (Degradation heating)						1.0
		Tol (temperature operating limit)	COPd							7.03
				Pdh	kW					5.7
				PERd	%					281.2
				TOL	°C					-22

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Technical Specifications				ETVX16S18D9WG + EPRA14DV3	ETVX16S23D9WG + EPRA14DV3	ETVX16S18D9WG + EPRA16DV3	ETVX16S23D9WG + EPRA16DV3	ETVX16S18D9WG + EPRA18DV3	ETVX16S23D9WG + EPRA18DV3	
Space heating Cold climate water outlet 35°C	Tol (temperature operating limit)	WTOL	°C	35						
	G	COPd		2.62						
	Condition (-15°CDB/-)	Pdh	kW	10.7						
	Tbiv (bivalent temperature)	PERd	%	104.8						
		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					
			s (Seasonal space heating efficiency)	%	236					
			Prated at 2°C	kW	13					
		Qhe Annual energy consumption (GCV)	Gj	10						
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		1.0					
			Pdh	kW	5.60					
			PERd	%	7.9					
Tbiv (bivalent temperature)		COPd			4.95					
			Pdh	kW	9.8					
	PERd		%	198.0						
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	Tbiv	°C	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 |
- (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				ETVZ16S18D6V + EPRA14DAV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + EPRA18DV3
Indoor unit				ETVZ16S18DA6V	ETVZ16S23DA6V	ETVZ16S18DA6V	ETVZ16S23DA6V	ETVZ16S18DA6V	ETVZ16S23DA6V
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)	
	Nom.		kW	5.69 (2)		9.00 (2)			
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (1)	
Power input	Heating	Min.	kW	0.74 (3)		0.82 (3)		0.88 (3)	
		Nom.	kW	1.22 (2)		1.80 (2)			
	Max.	kW	1.86 (3)		2.13 (3)		2.40 (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					
Pump Additional Zone				Nominal Heating kPa					
Pump Main Zone				Nominal Heating kPa					
Water side Heat exchanger				Water Heating Nom. l/min					

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Technical Specifications			ETVZ16S18D6V + EPRA14DV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + EPRA18DV3	
General	Supplier/ Manufacturer	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)	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	6.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	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	
		wh (water heating efficiency)	110	108	110	108	110	108	
		Qelec (Daily electricity consumption)	4.450	7.320	4.450	7.320	4.450	7.320	
		Reference hot water temperature	52.5						
		Stand-by power input	34.2	49.2	34.2	49.2	34.2	49.2	
		Water heating energy efficiency class	A						
		Cold climate	AEC (Annual electricity consumption)	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
			wh (water heating efficiency)	94	92	94	92	94	92
			Qelec (Daily electricity consumption)	5.170	8.560	5.170	8.560	5.170	8.560
Domestic hot water heating	Cold climate	Reference hot water temperature	52.5						
		Stand-by power input	36.4	54.4	36.4	54.4	36.4	54.4	
		AEC (Annual electricity consumption)	843	1,388	843	1,388	843	1,388	
	Warm climate	COPdhw	2.90						
		Heat up time	1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min	
		wh (water heating efficiency)	122	121	122	121	122	121	
		Qelec (Daily electricity consumption)	4.020	6.570	4.020	6.570	4.020	6.570	
		Reference hot water temperature	52.5						
		Stand-by power input	32.9	46.1	32.9	46.1	32.9	46.1	

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Technical Specifications				ETVZ16S18D6V + EPRA14DV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + EPRA18DV3		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,211							
		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					
				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 Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)		kW	0.3							
		COPd		2.19							
		Pdh	kW	12.2							
		PERd	%	87.6							
Cold climate water outlet 55°C	General	Annual energy consumption	kWh	9,654							
				s (Seasonal space heating efficiency)	% 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					

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Technical Specifications				ETVZ16S18D6V + EPRA14DV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + EPRA18DV3	
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	COPd						3.67	
			Pdh	kW					5.8	
			PERd	%						146.8
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
		D Condition (12°CDB/11°CWB)	PERd							187.6
			COPd							6.12
			Pdh	kW						6.2
		Tol (temperature operating limit)	PERd							244.8
	COPd								1.65	
	Pdh		kW						10.6	
	PERd		%						66.0	
	G Condition (-15°CDB/-)	TOL							-22	
		WTOL							55	
		COPd							2.17	
	Tbiv (bivalent temperature)	Pdh		kW					10.3	
		PERd		%					86.8	
		COPd							1.90	
		Pdh		kW					11.0	
Rated heat output	PERd		%					76.0		
	Tbiv		°C					-18		
Warm climate water outlet 55°C	General	Psup (at Tdesign -22°C)		kW					1.9	
		Annual energy consumption		kWh					4,090	
		s (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		
	COPd							3.27		
Water outlet 45°C (2°C / -)	Pdh		kW					9.9		
	PERd		%					130.8		
	Tbiv		°C					5		
	H Condition (2°C / -)		kW	11.1				11.8		
Average climate water outlet 35°C	General	SCOP							4.51	
		Annual energy consumption		kWh					5,726	
		s (Seasonal space heating efficiency)		%					177	
		Prated at -10°C		kW					13	
		Qhe Annual energy consumption (GCV)		Gj					21	
		Seasonal space heating eff. class							A+++	

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Technical Specifications				ETVZ16S18D6V + EPRA14DV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + 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					2.76			
		Pdh	kW				11.1			
		PERd	%				110.4			
	Tbiv (bivalent temperature)	TOL	°C				-10			
		WTOL	°C				35			
		COPd					3.12			
	Rated heat output	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		
			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			
		COPd					6.10			
D Condition (12°CDB/11°CWB)		Pdh	kW				5.3			
		PERd	%				244.0			
		Cdh (Degradation heating)					1.0			
Tol (temperature operating limit)		COPd					7.03			
		Pdh	kW				5.7			
		PERd	%				281.2			
G Condition (-15°CDB/-)		TOL	°C				-22			
		WTOL	°C				35			
		COPd					2.62			



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Technical Specifications					ETVZ16S18D6V + EPRA14DV3	ETVZ16S23D6V + EPRA14DV3	ETVZ16S18D6V + EPRA16DV3	ETVZ16S23D6V + EPRA16DV3	ETVZ16S18D6V + EPRA18DV3	ETVZ16S23D6V + EPRA18DV3
Space heating 	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	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	General	Psup (at Tdesign -22°C)	kW						2.4
			Annual energy consumption	kWh						2,885
	Warm climate water outlet 35°C	General	s (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
			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)	COPd						4.95	
			Pdh	kW						9.8
		PERd	%						198.0	
		Tbiv	°C						5	
	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					ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + EPRA18DV3
Indoor unit					ETVZ16S18DA9W		ETVZ16S23DA9W		ETVZ16S18DA9W	
Outdoor unit					EPRA14DAV3		EPRA16DAV3		EPRA18DAV3	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)		4.16 (1)		
	Nom.		kW	5.69 (2)		9.00 (2)				
	Max.		kW	8.75 (1)		10.00 (1)		11.25 (1)		
Power input	Heating	Min.	kW	0.74 (3)		0.82 (3)		0.88 (3)		
		Nom.	kW	1.22 (2)		1.80 (2)				
		Max.	kW	1.86 (3)		2.13 (3)		2.40 (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
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)			

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Technical Specifications				ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + EPRA18DV3	
General	Supplier/Manufacturer	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium							
		Name or trademark	Daikin Europe N.V.							
Product description	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 <sup>3</sup> /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	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	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		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
			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					
Domestic hot water heating	Cold climate	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	
	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				ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + EPRA18DV3			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,211			
			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							1.0
					Pdh kW							2.47
					PERd %							11.2
												98.8
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.56
					PERd %							6.9
												142.4
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.44
					PERd %							6.9
												177.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.72
					PERd %							6.2
												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			
		COPd							2.19			
Tbiv (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			
		s (Seasonal space heating efficiency) %							125			
		Prated at -22°C kW							13			
		Qhe Annual energy consumption (GCV) GJ							35			
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0	
				Pdh kW							2.74	
				PERd %							7.5	
											109.6	
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)								1.0	

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Technical Specifications				ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + EPRA18DV3	
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	COPd						3.67	
			Pdh kW						5.8	
			PERd %						146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh kW							5.6
		D Condition (12°CDB/11°CWB)	PERd %							187.6
			COPd							6.12
			Pdh kW							6.2
		Tol (temperature operating limit)	PERd %							244.8
	COPd								1.65	
	Pdh kW								10.6	
	PERd %								66.0	
	G Condition (-15°CDB/-)	TOL °C							-22	
		WTOL °C							55	
		COPd							2.17	
		Pdh kW							10.3	
	Tbiv (bivalent temperature)	PERd %							86.8	
		COPd							1.90	
		Pdh kW							11.0	
PERd %								76.0		
Rated heat output	General	Tbiv °C						-18		
		Psup (at Tdesign -22°C) kW						1.9		
Warm climate water outlet 55°C	General	Annual energy consumption kWh							4,090	
			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	
		COPd							3.27	
	Water outlet 45°C (2°C/-)	H Condition	Pdh kW						9.9	
			PERd %						130.8	
			Tbiv °C						5	
Max. kW				11.1				11.8		
Average climate water outlet 35°C	General	SCOP						4.51		
		Annual energy consumption kWh						5,726		
		Seasonal space heating efficiency %							177	
		Prated at -10°C kW							13	
		Qhe Annual energy consumption (GCV) GJ							21	
		Seasonal space heating eff. class							A+++	

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Technical Specifications				ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + 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							2.76	
			Pdh	kW						11.1	
			PERd	%						110.4	
	Tbiv (bivalent temperature)	TOL	°C						-10		
		WTOL	°C						35		
		COPd							3.12		
	Rated heat output	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	
			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	
COPd										6.10	
D Condition (12°CDB/11°CWB)		Pdh	kW							5.3	
		PERd	%							244.0	
		Cdh (Degradation heating)								1.0	
Tol (temperature operating limit)		COPd								7.03	
		Pdh	kW							5.7	
		PERd	%							281.2	
G Condition (-15°CDB/-)		TOL	°C							-22	
		WTOL	°C							35	
		COPd								2.62	

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Technical Specifications				ETVZ16S18D9W + EPRA14DV3	ETVZ16S23D9W + EPRA14DV3	ETVZ16S18D9W + EPRA16DV3	ETVZ16S23D9W + EPRA16DV3	ETVZ16S18D9W + EPRA18DV3	ETVZ16S23D9W + EPRA18DV3
Space heating	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	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	General	Psup (at Tdesign -22°C)	kW			2.4		
			Annual energy consumption	kWh			2,885		
	Warm climate water outlet 35°C	General	s (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				1.0	
				Pdh	kW			3.67	
				PERd	%			9.8	
	PERd			%			146.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0		
			Pdh	kW			5.60		
			PERd	%			7.9		
			PERd	%			224.0		
	Tbiv (bivalent temperature)	COPd	COPd				4.95		
			Pdh	kW			9.8		
			PERd	%			198.0		
			Tbiv	°C			5		
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd				1.0			
		Pdh	kW			7.60			
		PERd	%			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				ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + EPRA18DV3	
Indoor unit				ETSHB16P30DA	ETSHB16P50DA	ETSHB16P30DA	ETSHB16P50DA	ETSHB16P30DA	ETSHB16P50DA	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Nom.		kW	5.69 (1)		9.00 (1)				
Power input	Heating	Nom.	kW	1.22 (1)		1.80 (1)				
	Domestic hot water from 10°C	Nom.	kWh	3.92	5.26	3.92	5.26	3.92	5.26	
Heat up time from 10°C to 50°C			hr	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	
COP				4.67 (1)		5.00 (1)				
Pump	Type	Grundfos UPMXL 20-125 CHBL PWM RT								
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (1)		25.8 (1)			
General	Supplier/Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark			Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			No					
	Water-to-water heat pump			No						
LW(A) Sound power level	Indoor		dB(A)	45.6						
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						

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Technical Specifications				ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + EPRA18DV3	
Space heating general	Air to water unit	Rated airflow (outdoor)	m <sup>3</sup> /h	3,918				3,960		
	Other	Capacity control		Inverter						
		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		
		Function to fix water heating during off peak hours	Yes							
Space heating general	Integrated supplementary	Type of energy input	Electrical							
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,551	1,017	1,551	1,017	1,551	
		COPdhw		2.38	2.58	2.38	2.58	2.38	2.58	
		Mixed water at 40°C	l	149.0	211.0	149.0	211.0	149.0	211.0	
		wh (water heating efficiency)	%	101	108	101	108	101	108	
		Qelec (Daily electricity consumption)	kWh	4.900	7.379	4.900	7.379	4.900	7.379	
		Reference hot water temperature	°C	47.0	48.0	47.0	48.0	47.0	48.0	
		Stand-by power input	W	49.0	57.6	49.0	57.6	49.0	57.6	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,143	1,725	1,143	1,725	1,143	1,725
			COPdhw		2.12	2.32	2.12	2.32	2.12	2.32
			Mixed water at 40°C	l	149.0	211.0	149.0	211.0	149.0	211.0
			wh (water heating efficiency)	%	90	97	90	97	90	97
			Qelec (Daily electricity consumption)	kWh	5.506	8.211	5.506	8.211	5.506	8.211
		Warm climate	AEC (Annual electricity consumption)	kWh	902	1,388	902	1,388	902	1,388
			COPdhw		2.67	2.87	2.67	2.87	2.67	2.87
Mixed water at 40°C	l		149.0	211.0	149.0	211.0	149.0	211.0		
wh (water heating efficiency)	%		114	121	114	121	114	121		
Qelec (Daily electricity consumption)	kWh		4.377	6.636	4.377	6.636	4.377	6.636		
Space heating	Average climate water outlet	General	Annual energy consumption	kWh						
		7,211								

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Technical Specifications			ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + EPRA18DV3		
Space heating Average climate water outlet 55°C	General	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
			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		
Rated heat output	Psup (at Tdesign -10°C) kW							0.3		
	Tbiv (bivalent temperature) COPd							2.19		
	Pdh kW							12.2		
	PERd %							87.6		
Cold climate water outlet 55°C	Tbiv °C							-10		
	General	Annual energy consumption kWh							9,654	
		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				ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + 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	Psup (at Tdesign -22°C)		kW			1.9					
	Warm climate water outlet 55°C	General	Annual energy consumption s (Seasonal space heating efficiency)	Prated at 2°C	kW			4,090				
				Qhe Annual energy consumption (GCV)	Gj			15				
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0		
						Pdh	kW			2.45		
						PERd	%			10.0		
								98.0				
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0				
Pdh				kW			3.69					
PERd				%			7.9					
							147.6					
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	COPd				1.0					
			Pdh	kW			5.39					
			PERd	%			5.9					
							215.6					
Tbiv (bivalent temperature)		COPd					3.27					
			Pdh	kW			9.9					
			PERd	%			130.8					
			Tbiv	°C			5					
Water outlet 45°C		H Condition (2°C / -)	Max.		kW	11.1			11.8			
Average climate water outlet 35°C	General	SCOP					4.51					
			Annual energy consumption s (Seasonal space heating efficiency)	Prated at -10°C	kW			5,726				
				Qhe Annual energy consumption (GCV)	Gj			177				
				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)	COPd				1.0					
			Pdh	kW			4.44					
			PERd	%			6.7					
							177.6					
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0					
			Pdh	kW			5.84					
						5.7						

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Technical Specifications				ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + EPRA18DV3	
Space heating	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%					233.6	
			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
					COPd				2.76	
					Pdh	kW			11.1	
					PERd	%			110.4	
					TOL	°C			-10	
		Tbiv (bivalent temperature)			WTOL	°C			35	
					COPd				3.12	
					Pdh	kW			11.1	
					PERd	%			124.8	
		Rated heat output			Tbiv	°C			-7	
					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	
		B Condition (2°CDB/1°CWB)			PERd	%			140.0	
					Cdh (Degradation heating)				1.0	
					COPd				5.07	
					Pdh	kW			4.9	
		C Condition (7°CDB/6°CWB)			PERd	%			202.8	
					Cdh (Degradation heating)				1.0	
					COPd				6.10	
		D Condition (12°CDB/11°CWB)			Pdh	kW			5.3	
					PERd	%			244.0	
Cdh (Degradation heating)							1.0			
Tol (temperature operating limit)			COPd				7.03			
			Pdh	kW			5.7			
			PERd	%			281.2			
			COPd				2.16			
			Pdh	kW			10.1			
G Condition (-15°CDB/-)			PERd	%			86.4			
			TOL	°C			-22			
			WTOL	°C			35			
			COPd				2.62			
Condition (-15°CDB/-)			Pdh	kW			10.7			
			PERd	%			104.8			
			COPd				2.62			
Tbiv (bivalent temperature)			Pdh	kW			10.7			
			PERd	%			104.8			
			Tbiv	°C			-15			
			Psup (at Tdesign -22°C)	kW			2.4			
Warm climate water outlet 35°C	General		Annual energy consumption	kWh			2,885			
			ηs (Seasonal space heating efficiency)	%			229			
			Prated at 2°C	kW			13			

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Technical Specifications				ETSHB16P30D + EPRA14DV3	ETSHB16P50D + EPRA14DV3	ETSHB16P30D + EPRA16DV3	ETSHB16P50D + EPRA16DV3	ETSHB16P30D + EPRA18DV3	ETSHB16P50D + EPRA18DV3
Space heating 	Warm climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	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)	COPd	4.95					
			Pdh kW	9.8					
			PERd %	198.0					
			Tbiv °C	5					
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0					
			COPd	7.60					
			Pdh kW	6.1					
PERd %	304.0								

(I)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |  
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |  
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB

Technical Specifications				ETSH16P30D + EPRA14DV3	ETSH16P50D + EPRA14DV3	ETSH16P30D + EPRA16DV3	ETSH16P50D + EPRA16DV3	ETSH16P30D + EPRA18DV3	ETSH16P50D + EPRA18DV3	
Indoor unit				ETSH16P30DA	ETSH16P50DA	ETSH16P30DA	ETSH16P50DA	ETSH16P30DA	ETSH16P50DA	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Nom.		kW	5.69 (1)		9.00 (1)				
Power input	Heating	Nom.	kW	1.22 (1)		1.80 (1)				
	Domestic hot water from 10°C	Nom.	kWh	3.92	5.78	3.92	5.78	3.92	5.78	
Heat up time from 10°C to 50°C			hr	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	
COP				4.67 (1)		5.00 (1)				
Pump	Type				Grundfos UPMXL 20-125 CHBL PWM RT					
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (1)		25.8 (1)			
General	Supplier/Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
	Product description	Name or trademark			Daikin Europe N.V.					
		Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
	Supplementary heater integrated			No						
Water-to-water heat pump			No							
LW(A) Sound power level (according to EN14825)	Indoor	dB(A)			45.6					
	Outdoor	dB(A)			54.0					
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Space heating general	Air to water unit	Rated airflow (outdoor)		m³/h	3,918			3,960		
		Other	Capacity control			Inverter				
	Poff (Off mode)			kW						
	Psb (Standby mode)			kW						
	Pto (Thermostat off)			kW						
Domestic hot water heating 	General	Declared load profile			L	XL	L	XL	L	XL
		Function to fix water heating during off peak hours			Yes					
Space heating general	Integrated supplementary	Type of energy input			Electrical					

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Technical Specifications				ETSH16P30D + EPRA14DV3	EPRA14DAV3	ETSH16P30D + EPRA16DV3	EPRA16DAV3	ETSH16P30D + EPRA18DV3	EPRA18DAV3		
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,459	1,017	1,459	1,017	1,459		
		COPdhw		2.38	2.75	2.38	2.75	2.38	2.75		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	101	115	101	115	101	115		
		Qelec (Daily electricity consumption)	kWh	4.900	6.924	4.900	6.924	4.900	6.924		
		Reference hot water temperature	°C	47.0							
		Stand-by power input	W	49.0	51.0	49.0	51.0	49.0	51.0		
		Water heating energy efficiency class		A							
		Cold climate	Average climate	AEC (Annual electricity consumption)	kWh	1,143	1,669	1,143	1,669	1,143	1,669
				COPdhw		2.12	2.41	2.12	2.41	2.12	2.41
Mixed water at 40°C	l			149.0	237.2	149.0	237.2	149.0	237.2		
wh (water heating efficiency)	%			90	100	90	100	90	100		
Qelec (Daily electricity consumption)	kWh			5.506	7.902	5.506	7.902	5.506	7.902		
Reference hot water temperature	°C			47.0							
Warm climate	Average climate	AEC (Annual electricity consumption)	kWh	902	1,430	902	1,430	902	1,430		
		COPdhw		2.67	2.81	2.67	2.81	2.67	2.81		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	114	117	114	117	114	117		
		Qelec (Daily electricity consumption)	kWh	4.377	6.794	4.377	6.794	4.377	6.794		
		Reference hot water temperature	°C	47.0							
Space heating	Average climate water outlet	General	Annual energy consumption	kWh	7,211						

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Technical Specifications			ETSH16P30D + EPRA14DV3	EPRA14DAV3	ETSH16P30D + EPRA16DV3	EPRA16DAV3	ETSH16P30D + EPRA18DV3	EPRA18DAV3
Space heating 	Average climate water outlet 55°C	General	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	
			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		
		s (Seasonal space heating efficiency) %				125		
		Prated at -22°C kW				13		
		Qhe Annual energy consumption (GCV) GJ				35		
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0	
			COPd				2.74	
		Pdh kW				7.5		
		PERd %				109.6		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
		COPd				3.67		
		Pdh kW				5.8		
		PERd %				146.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0		
		COPd				4.69		
		Pdh kW				5.6		
		PERd %				187.6		
	D Condition (12°CDB/11°CWB)	COPd				6.12		
		Pdh kW				6.2		
		PERd %				244.8		

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Technical Specifications				ETSH16P30D + EPRA14DV3	EPRA14DAV3	ETSH16P30D + EPRA16DV3	EPRA16DAV3	ETSH16P30D + EPRA18DV3	EPRA18DAV3	
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	Psup (at Tdesign -22°C)	kW			1.9				
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh			4,090			
			s (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			2.45		
		PERd			%			10.0		
							98.0			
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)	COPd				1.0			
			Pdh	kW			3.69			
			PERd	%			7.9			
							147.6			
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	COPd				1.0			
			Pdh	kW			5.39			
			PERd	%			5.9			
							215.6			
Tbiv (bivalent temperature)		COPd	Pdh	kW			3.27			
			PERd	%			9.9			
			Tbiv	°C			130.8			
							5			
Water outlet 45°C (-2°C/-)	H Condition (-)	Max.	kW	11.1			11.8			
Average climate water outlet 35°C	General	SCOP				4.51				
		Annual energy consumption	kWh			5,726				
		s (Seasonal space heating efficiency)	%			177				
		Prated at -10°C	kW			13				
		Qhe Annual energy consumption (GCV)	Gj			21				
	Seasonal space heating eff. class				A+++					
	A Condition (-7°CDB/-8°CWB)	COPd	Pdh	kW			3.12			
			PERd	%			11.1			
							124.8			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0			
			Pdh	kW			4.44			
			PERd	%			6.7			
							177.6			
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0			
			Pdh	kW			5.84			
						5.7				

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Technical Specifications				ETSH16P30D + EPRA14DV3	EPRA14DAV3	ETSH16P30D + EPRA16DV3	EPRA16DAV3	ETSH16P30D + EPRA18DV3	EPRA18DAV3	
Space heating 	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	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				
		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		
s (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					
B Condition (2°CDB/1°CWB)	PERd		%		140.0					
	Cdh (Degradation heating)				1.0					
	COPd				5.07					
	Pdh		kW		4.9					
C Condition (7°CDB/6°CWB)	PERd		%		202.8					
	Cdh (Degradation heating)				1.0					
	COPd				6.10					
	Pdh		kW		5.3					
D Condition (12°CDB/11°CWB)	PERd		%		244.0					
	Cdh (Degradation heating)			1.0						
	COPd			7.03						
	Pdh	kW		5.7						
Tol (temperature operating limit)	PERd	%		281.2						
	COPd			2.16						
	Pdh	kW		10.1						
	PERd	%		86.4						
G Condition (-15°CDB/-)	TOL	°C		-22						
	WTOL	°C		35						
	COPd			2.62						
	Pdh	kW		10.7						
Tbiv (bivalent temperature)	PERd	%		104.8						
	COPd			2.62						
	Pdh	kW		10.7						
	PERd	%		104.8						
Rated heat output	Tbiv	°C		-15						
	Psup (at Tdesign -22°C)	kW		2.4						
Warm climate water outlet 35°C	General	Annual energy consumption	kWh			2,885				
		s (Seasonal space heating efficiency)	%			229				
		Prated at 2°C	kW			13				

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Technical Specifications				ETSH16P30D + EPRA14DV3	EPRA14DAV3	ETSH16P30D + EPRA16DV3	EPRA16DAV3	ETSH16P30D + EPRA18DV3	EPRA18DAV3				
Space heating Warm climate water outlet 35°C	General	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					
								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)	COPd	4.95							
						PdH kW	9.8						
							PERd %	198.0					
								Tbiv °C	5				
				D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0							
						COPd	7.60						
							PdH kW	6.1					
PERd %	304.0												



(I)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |  
Cooling: EW 23°C; LW 18°C; ambient conditions: 35°CDB |  
Cooling: EW 12°C; LW 7°C; ambient conditions: 35°CDB

Technical Specifications				ETSB16P30D + EPRA14DV3	ETSB16P50D + EPRA14DV3	ETSB16P30D + EPRA16DV3	ETSB16P50D + EPRA16DV3	ETSB16P30D + EPRA18DV3	ETSB16P50D + EPRA18DV3	
Indoor unit				ETSB16P30DA	ETSB16P50DA	ETSB16P30DA	ETSB16P50DA	ETSB16P30DA	ETSB16P50DA	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Nom.		kW	5.69 (1)		9.00 (1)				
Cooling capacity	Nom.		kW	10.6 (2) / 6.90 (3)		11.5 (2) / 7.88 (3)		12.5 (2) / 8.86 (3)		
Power input	Heating	Nom.	kW	1.22 (1)		1.80 (1)				
	Cooling	Nom.	kW	2.55 (2) / 2.56 (3)		2.80 (2) / 2.93 (3)		3.05 (2) / 3.31 (3)		
	Domestic hot water from 10°C	Nom.	kWh	3.92	5.26	3.92	5.26	3.92	5.26	
Heat up time from 10°C to 50°C			hr	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h11min at 7°C ambient temperature	
COP				4.67 (1)		5.00 (1)				
EER				4.13 (2) / 2.70 (3)		4.11 (2) / 2.69 (3)		4.09 (2) / 2.68 (3)		
Pump	Type	Grundfos UPMXL 20-125 CHBL PWM RT								
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (1)		25.8 (1)			
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product description	Air-to-water heat pump		Yes						
		Brine-to-water heat pump		No						
		Heat pump combination heater		Yes						
		Low-temperature heat pump		No						
		Supplementary heater integrated		No						
Water-to-water heat pump		No								
LW(A) Sound power level	Indoor		dB(A)	45.6						
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0						
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Space heating general	Air to water unit	Rated airflow (outdoor)		m <sup>3</sup> /h	3,918			3,960		
		Capacity control		Inverter						
	Other	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	
Function to fix water heating during off peak hours		Yes								
Space heating general	Integrated supplementary	Type of energy input		Electrical						



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Technical Specifications				ETSXB16P30D + EPRA14DV3	ETSXB16P50D + EPRA14DV3	ETSXB16P30D + EPRA16DV3	ETSXB16P50D + EPRA16DV3	ETSXB16P30D + EPRA18DV3	ETSXB16P50D + EPRA18DV3	
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,551	1,017	1,551	1,017	1,551	
		COPdhw		2.38	2.58	2.38	2.58	2.38	2.58	
		Mixed water at 40°C	l	149.0	211.0	149.0	211.0	149.0	211.0	
		wh (water heating efficiency)	%	101	108	101	108	101	108	
		Qelec (Daily electricity consumption)	kWh	4.900	7.379	4.900	7.379	4.900	7.379	
		Reference hot water temperature	°C	47.0	48.0	47.0	48.0	47.0	48.0	
		Stand-by power input	W	49.0	57.6	49.0	57.6	49.0	57.6	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,143	1,725	1,143	1,725	1,143	1,725
			COPdhw		2.12	2.32	2.12	2.32	2.12	2.32
Mixed water at 40°C	l		149.0	211.0	149.0	211.0	149.0	211.0		
wh (water heating efficiency)	%		90	97	90	97	90	97		
Qelec (Daily electricity consumption)	kWh		5.506	8.211	5.506	8.211	5.506	8.211		
Reference hot water temperature	°C		47.0	48.0	47.0	48.0	47.0	48.0		
Warm climate	AEC (Annual electricity consumption)	kWh	902	1,388	902	1,388	902	1,388		
	COPdhw		2.67	2.87	2.67	2.87	2.67	2.87		
	Mixed water at 40°C	l	149.0	211.0	149.0	211.0	149.0	211.0		
	wh (water heating efficiency)	%	114	121	114	121	114	121		
	Qelec (Daily electricity consumption)	kWh	4.377	6.636	4.377	6.636	4.377	6.636		
Domestic hot water heating 	Warm climate	Reference hot water temperature	°C	47.0	48.0	47.0	48.0	47.0	48.0	

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Technical Specifications			ETSXB16P30D + EPRA14DV3	ETSXB16P50D + EPRA14DV3	ETSXB16P30D + EPRA16DV3	ETSXB16P50D + EPRA16DV3	ETSXB16P30D + EPRA18DV3	ETSXB16P50D + EPRA18DV3		
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh					7,134		
			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
				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 Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)							0.3		
		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		
		s (Seasonal space heating efficiency) %						125		
		Prated at -22°C kW						13		
		Qhe Annual energy consumption (GCV) Gj						35		
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0
				COPd						2.74
				Pdh kW						7.5
				PERd %						109.6
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
				COPd						3.67
				Pdh kW						5.8
				PERd %						146.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
				COPd						4.69
				Pdh kW						5.6
				PERd %						187.6

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Technical Specifications				ETSXB16P30D + EPRA14DV3	ETSXB16P50D + EPRA14DV3	ETSXB16P30D + EPRA16DV3	ETSXB16P50D + EPRA16DV3	ETSXB16P30D + EPRA18DV3	ETSXB16P50D + EPRA18DV3	
Space heating 	Cold climate water outlet 55°C	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				
	Tbiv (bivalent temperature)	PERd	%		86.8					
		COPd			1.90					
		Pdh	kW		11.0					
		PERd	%		76.0					
	Rated heat output	Tbiv	°C		-18					
		Psup (at Tdesign -22°C)	kW		1.9					
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh				3,997		
			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			
		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			
		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	SCOP				4.57				
		Annual energy consumption	kWh			5,649				
		ηs (Seasonal space heating efficiency)	%				180			
		Prated at -10°C	kW				13			
		Qhe Annual energy consumption (GCV)	Gj				20			
	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				

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Technical Specifications			ETSXB16P30D + EPRA14DV3	ETSXB16P50D + EPRA14DV3	ETSXB16P30D + EPRA16DV3	ETSXB16P50D + EPRA16DV3	ETSXB16P30D + EPRA18DV3	ETSXB16P50D + EPRA18DV3	
Space heating Average climate water outlet 35°C	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						
	Tbiv (bivalent temperature)	WTOL °C	35						
		COPd	3.12						
		Pdh kW	11.1						
		PERd %	124.8						
	Rated heat output	Tbiv °C	-7						
		Psup (at Tdesign -10°C) kW	1.4						
	Cold climate water outlet 35°C	General	Annual energy consumption kWh	7,370					
			s (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						
B Condition (2°CDB/1°CWB)		PERd %	140.0						
		Cdh (Degradation heating)	1.0						
		COPd	5.07						
		Pdh kW	4.9						
C Condition (7°CDB/6°CWB)	PERd %	202.8							
	Cdh (Degradation heating)	1.0							
	COPd	6.10							
	Pdh kW	5.3							
D Condition (12°CDB/11°CWB)	PERd %	244.0							
	Cdh (Degradation heating)	1.0							
	COPd	7.03							
	Pdh kW	5.7							
Tol (temperature operating limit)	PERd %	281.2							
	COPd	2.16							
	Pdh kW	10.1							
	PERd %	86.4							
G Condition (-15°CDB/-)	TOL °C	-22							
	WTOL °C	35							
	COPd	2.62							
	Pdh kW	10.7							
Tbiv (bivalent temperature)	PERd %	104.8							
	COPd	2.62							
	Pdh kW	10.7							
	PERd %	104.8							
Rated heat output	Tbiv °C	-15							
	Psup (at Tdesign -22°C) kW	2.4							

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Technical Specifications				ETSXB16P30D + EPRA14DV3	ETSXB16P50D + EPRA14DV3	ETSXB16P30D + EPRA16DV3	ETSXB16P50D + EPRA16DV3	ETSXB16P30D + EPRA18DV3	ETSXB16P50D + EPRA18DV3	
Space heating 	Warm climate water outlet 35°C	General	Annual energy consumption	2,792						
			Seasonal space heating efficiency	236						
			Prated at 2°C	13						
			Annual energy consumption (GCV)	10						
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
				COPd	3.67					
				Pdh	9.8					
				PERd	146.8					
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0					
				COPd	5.60					
				Pdh	7.9					
				PERd	224.0					
			Tbiv (bivalent temperature)	COPd	4.95					
				Pdh	9.8					
				PERd	198.0					
				Tbiv	5					
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0					
				COPd	7.60					
				Pdh	6.1					
				PERd	304.0					

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

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

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

Technical Specifications				ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3	
Indoor unit				ETSX16P30DA	ETSX16P50DA	ETSX16P30DA	ETSX16P50DA	ETSX16P30DA	ETSX16P50DA	
Outdoor unit				EPRA14DAV3		EPRA16DAV3		EPRA18DAV3		
Heating capacity	Nom.		kW	5.69 (1)		9.00 (1)				
Cooling capacity	Nom.		kW	10.6 (2) / 6.90 (3)		11.5 (2) / 7.88 (3)		12.5 (2) / 8.86 (3)		
Power input	Heating	Nom.	kW	1.22 (1)						
	Cooling	Nom.	kW	2.55 (2) / 2.56 (3)		2.80 (2) / 2.93 (3)		3.05 (2) / 3.31 (3)		
	Domestic hot water from 10°C	Nom.	kWh	3.92	5.78	3.92	5.78	3.92	5.78	
Heat up time from 10°C to 50°C			hr	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h41min at 7°C ambient temperature	2h18min at 7°C ambient temperature	
COP				4.67 (1)		5.00 (1)				
EER				4.13 (2) / 2.70 (3)		4.11 (2) / 2.69 (3)		4.09 (2) / 2.68 (3)		
Pump	Type	Grundfos UPMXL 20-125 CHBL PWM RT								
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (1)		25.8 (1)			
General	Supplier/Manufacturer details	Name and address		Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium						
		Name or trademark		Daikin Europe N.V.						
	Product description	Air-to-water heat pump		Yes						
		Brine-to-water heat pump		No						
		Heat pump combination heater		Yes						
		Low-temperature heat pump		No						
		Supplementary heater integrated		No						
		Water-to-water heat pump		No						
	LW(A) Sound power level	Indoor		dB(A)	45.6					
	LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0					
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Space heating general	Air to water unit	Rated airflow (outdoor)	m³/h	3,918			3,960			
	Other	Capacity control		Inverter						
		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	
		Function to fix water heating during off peak hours		Yes						
Space heating general	Integrated supplementary	Type of energy input		Electrical						

## 2 Specifications


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2

Technical Specifications				ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3		
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,459	1,017	1,459	1,017	1,459		
		COPdhw		2.38	2.75	2.38	2.75	2.38	2.75		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	101	115	101	115	101	115		
		Qelec (Daily electricity consumption)	kWh	4.900	6.924	4.900	6.924	4.900	6.924		
		Reference hot water temperature	°C	47.0							
		Stand-by power input	W	49.0	51.0	49.0	51.0	49.0	51.0		
		Water heating energy efficiency class		A							
		Cold climate	Average climate	AEC (Annual electricity consumption)	kWh	1,143	1,669	1,143	1,669	1,143	1,669
				COPdhw		2.12	2.41	2.12	2.41	2.12	2.41
Mixed water at 40°C	l			149.0	237.2	149.0	237.2	149.0	237.2		
wh (water heating efficiency)	%			90	100	90	100	90	100		
Qelec (Daily electricity consumption)	kWh			5.506	7.902	5.506	7.902	5.506	7.902		
Reference hot water temperature	°C			47.0							
Warm climate	Average climate	AEC (Annual electricity consumption)	kWh	902	1,430	902	1,430	902	1,430		
		COPdhw		2.67	2.81	2.67	2.81	2.67	2.81		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	114	117	114	117	114	117		
		Qelec (Daily electricity consumption)	kWh	4.377	6.794	4.377	6.794	4.377	6.794		
Domestic hot water heating	Warm climate	Reference hot water temperature	°C	47.0							

## 2 Specifications

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Technical Specifications			ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh				7,134	
			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	
			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					9,609	
		s (Seasonal space heating efficiency) %					125	
		Prated at -22°C kW					13	
		Qhe Annual energy consumption (GCV) GJ					35	
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)					1.0	
		COPd					2.74	
		Pdh kW					7.5	
		PERd %					109.6	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)					1.0	
		COPd					3.67	
		Pdh kW					5.8	
		PERd %					146.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)					1.0	
		COPd					4.69	
		Pdh kW					5.6	
		PERd %					187.6	

2

## 2 Specifications

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2

Technical Specifications				ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3	
Space heating	Cold climate water outlet 55°C	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			
	Tbiv (bivalent temperature)	PERd	%			86.8				
		COPd				1.90				
		Pdh	kW			11.0				
		PERd	%			76.0				
	Rated heat output	Tbiv	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			
		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			
		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	SCOP				4.57		
Annual energy consumption	kWh					5,649				
ηs (Seasonal space heating efficiency)	%						180			
Prated at -10°C	kW						13			
Qhe Annual energy consumption (GCV)	Gj						20			
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				



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Technical Specifications				ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3	
Space heating 	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0	
			COPd						5.84	
			Pdh kW						5.7	
			PERd %						233.6	
										1.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.40
			Pdh kW							6.0
			PERd %							296.0
										2.76
	Tol (temperature operating limit)	COPd							11.1	
		Pdh kW							110.4	
		PERd %							-10	
		TOL °C							35	
		WTOL °C							3.12	
	Tbiv (bivalent temperature)	COPd							11.1	
		Pdh kW							124.8	
		PERd %							-7	
		Tbiv °C							1.4	
	Rated heat output	Psup (at Tdesign -10°C)	kW							
Cold climate water outlet 35°C	General	Annual energy consumption	kWh						7,370	
		s (Seasonal space heating efficiency)	%						164	
		Prated at -22°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						27	
									3.50	
	A Condition (-7°CDB/-8°CWB)	COPd							8.0	
		Pdh kW							140.0	
		PERd %							1.0	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
		COPd							5.07	
		Pdh kW							4.9	
		PERd %							202.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
		COPd							6.10	
		Pdh kW							5.3	
		PERd %							244.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
		COPd							7.03	
		Pdh kW							5.7	
		PERd %							281.2	
Tol (temperature operating limit)	COPd							2.16		
	Pdh kW							10.1		
	PERd %							86.4		
	TOL °C							-22		
	WTOL °C							35		
G Condition (-15°CDB/-)	COPd							2.62		
	Pdh kW							10.7		
	PERd %							104.8		
Tbiv (bivalent temperature)	COPd							2.62		
	Pdh kW							10.7		
	PERd %							104.8		
	Tbiv °C							-15		
Rated heat output	Psup (at Tdesign -22°C)	kW						2.4		

2

## 2 Specifications

### 1 - 1 EPRA014-018DV

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Technical Specifications				ETSX16P30D + EPRA14DV3	ETSX16P50D + EPRA14DV3	ETSX16P30D + EPRA16DV3	ETSX16P50D + EPRA16DV3	ETSX16P30D + EPRA18DV3	ETSX16P50D + EPRA18DV3		
Space heating Warm climate water outlet 35°C	General	Annual energy consumption	kWh	2,792							
			s (Seasonal space heating efficiency) %	236							
			Prated at 2°C	kW	13						
				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)	COPd	4.95						
					Pdh kW	9.8					
					PERd %	198.0					
					Tbiv °C	5					
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0						
					COPd	7.60					
					Pdh kW	6.1					
					PERd %	304.0					

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

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

(3)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				
Heat exchanger	Length	mm	1,200				
	Rows	Quantity	3				
	Fin pitch	mm	2.20				
	Passes	Quantity	10				
	Face area	m <sup>2</sup>	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 <sup>3</sup> /min	65.3	66.0	
		Cooling	Nom.	m <sup>3</sup> /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					
	Starting method	Inverter driven					
PED	Category	Category III					

## 2 Specifications

1 - 1 EPRA014-018DV

Technical Specifications				EPRA14DV3	EPRA16DV3	EPRA18DV3	
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.	dBa	56.0 (1)		59.0 (1)	
Sound power level	Cooling	Nom.	dBa	56.0 (1)		59.0 (1)	
Sound pressure level	Heating	Nom.	dBa	43.0 (2)		48.0 (2)	
	Cooling	Nom.	dBa	43.0 (2)		48.0 (2)	
	Night quiet mode	Heating	dBa	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				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	

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

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

(2)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 35°C (DT = 5°C). |

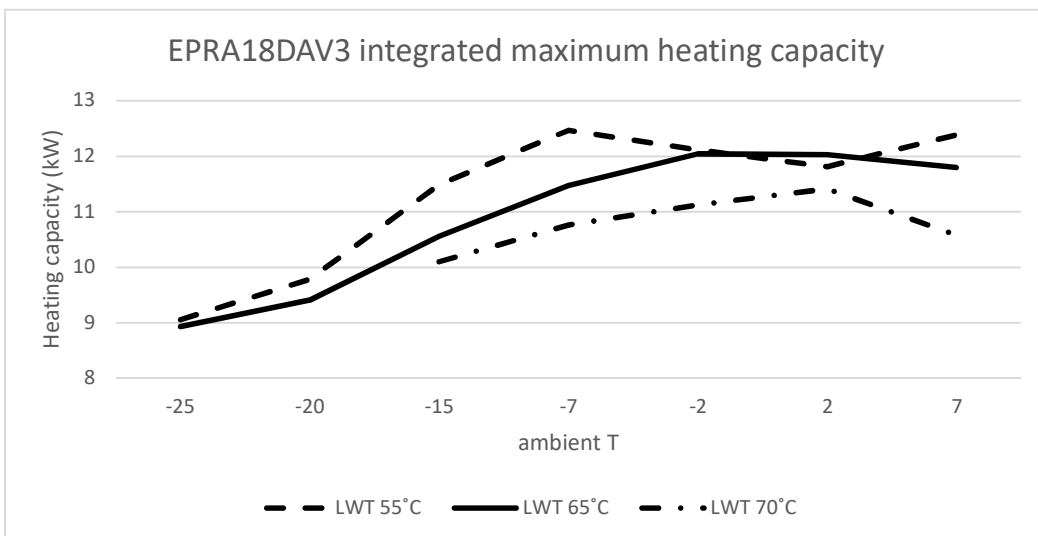
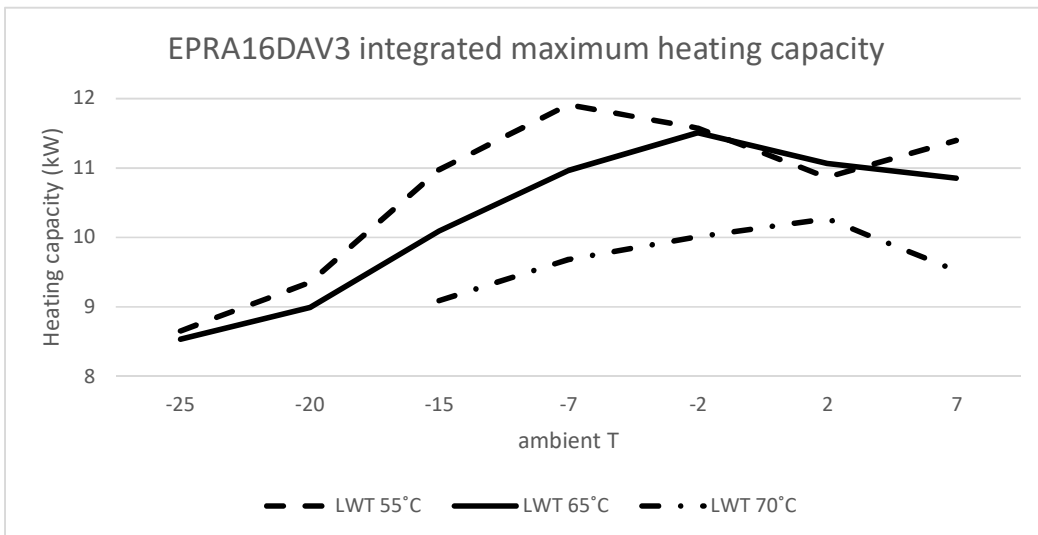
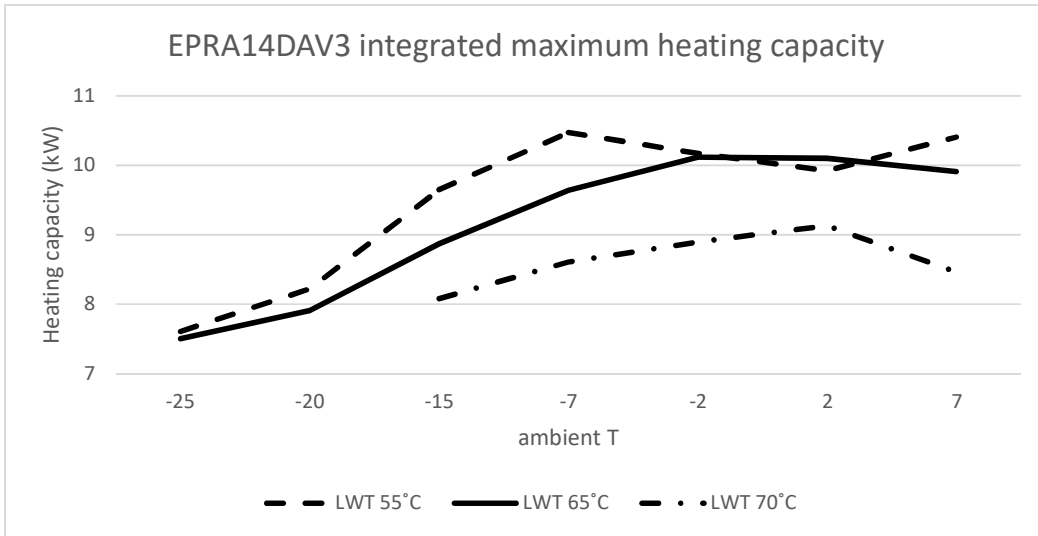
(3)Percentage of heating capacity at Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

### 3 Capacity graphs

#### 3 - 1 Heating Capacity Graphs

3

EPRA014-018DV

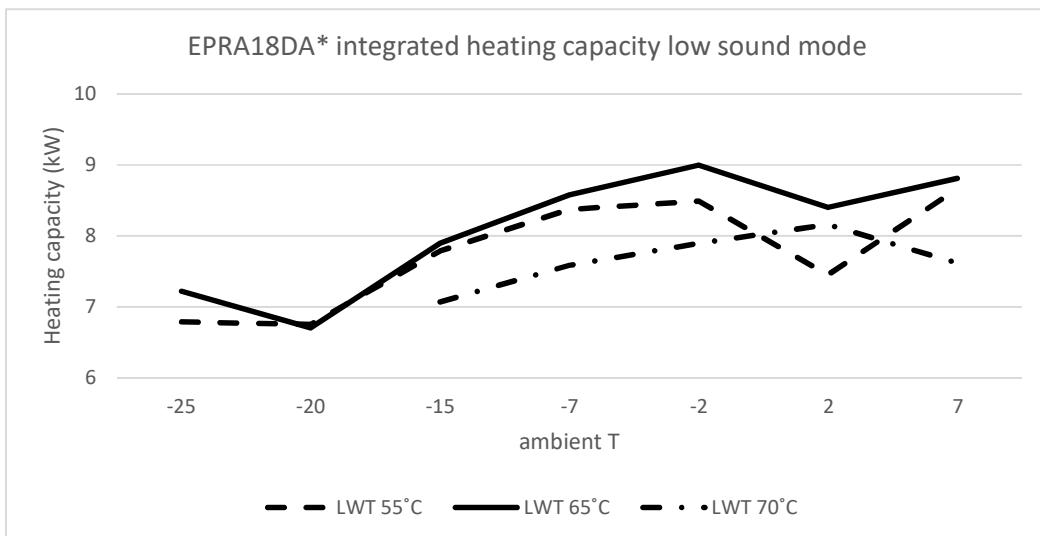
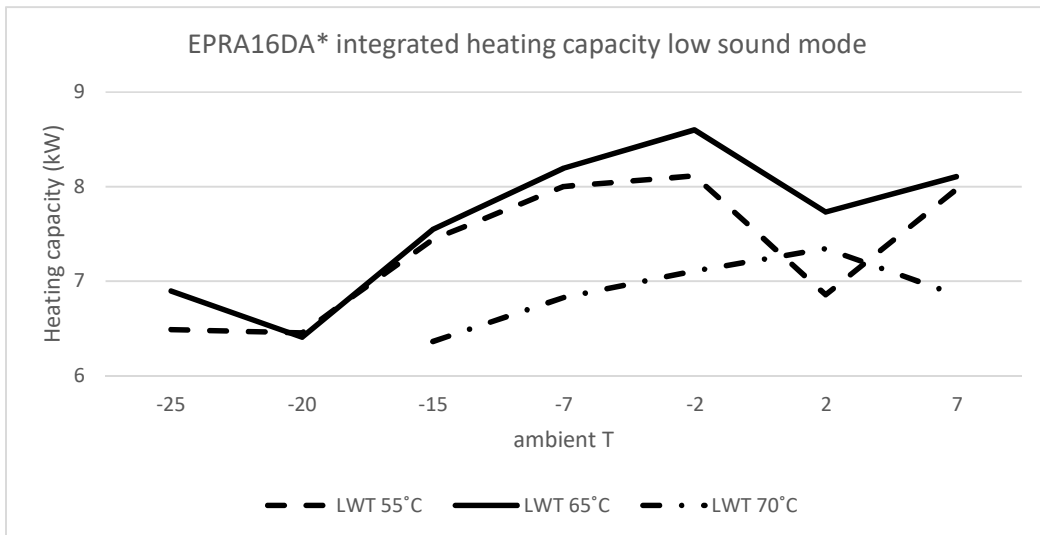
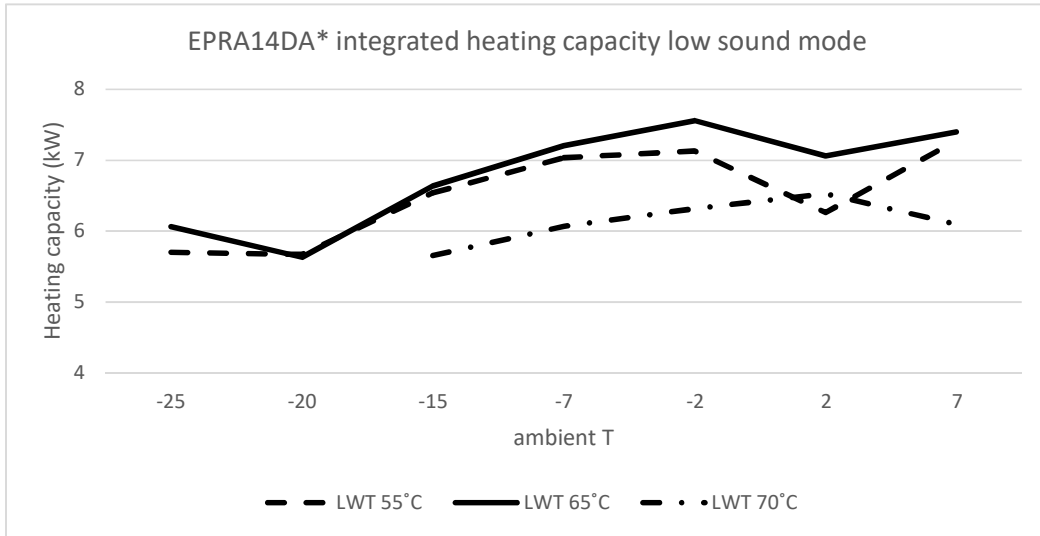


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### 3 Capacity graphs

#### 3 - 2 Heating Capacity Graphs

EPRA014-018DV



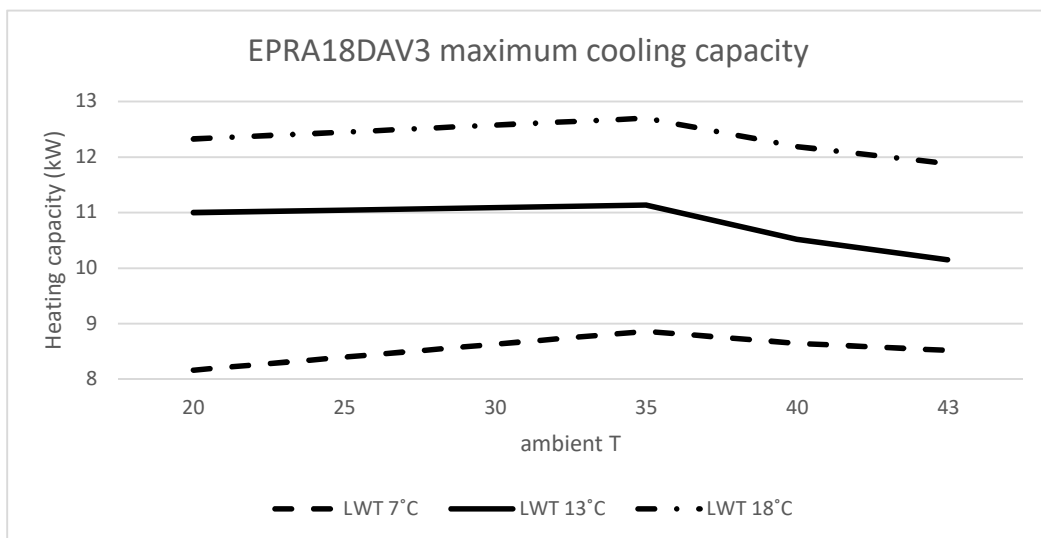
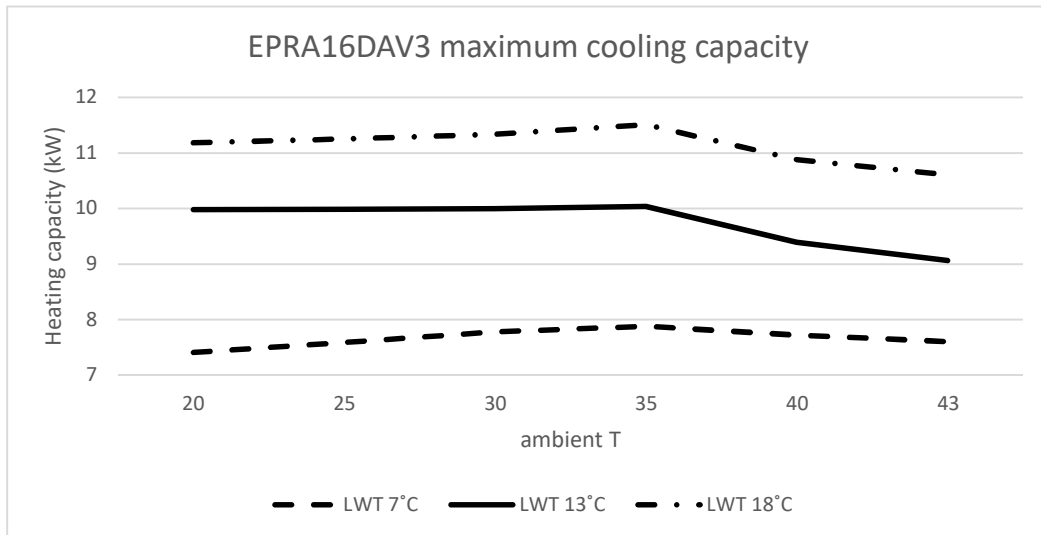
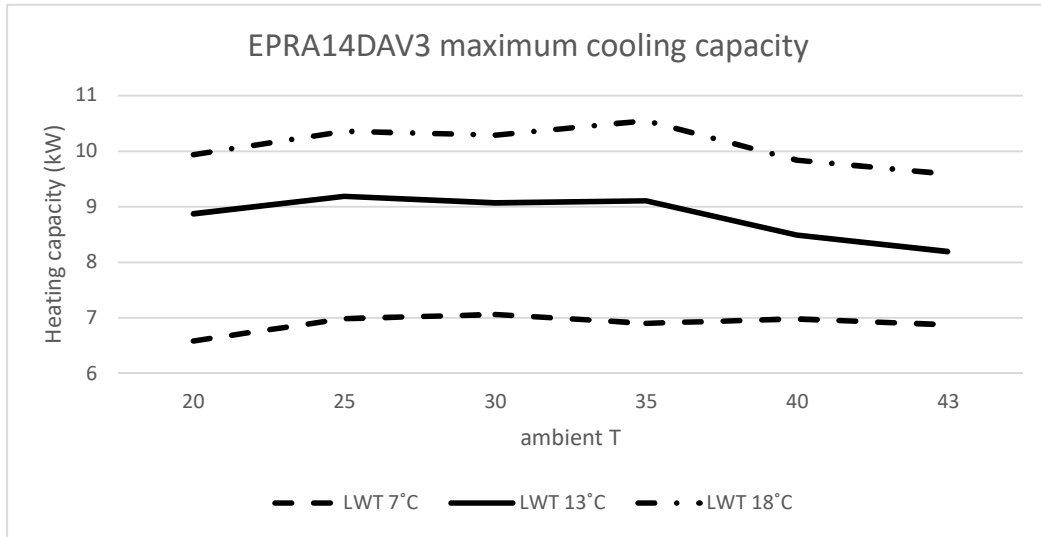
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### 3 Capacity graphs

#### 3 - 3 Cooling Capacity Graphs

3

EPRA014-018DV

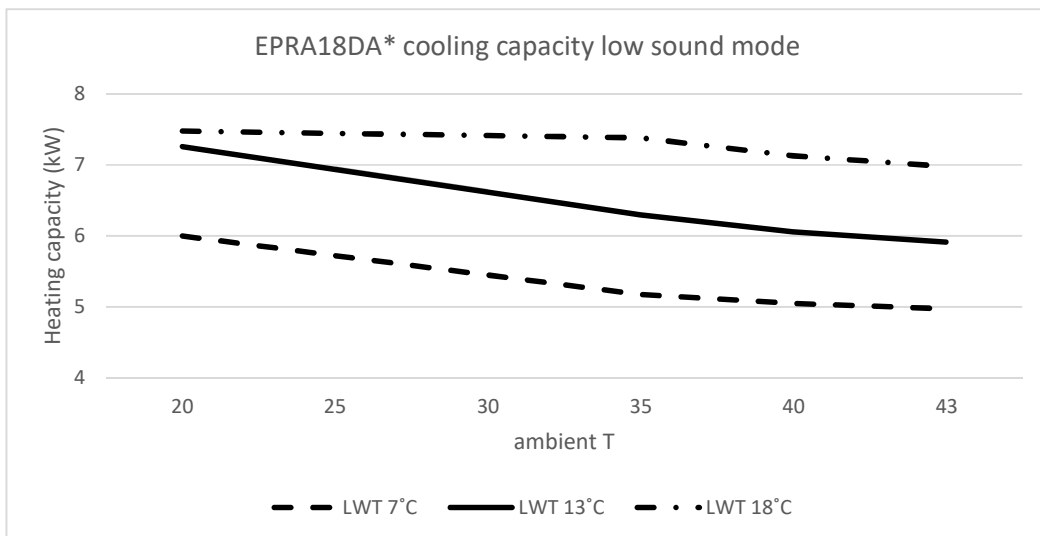
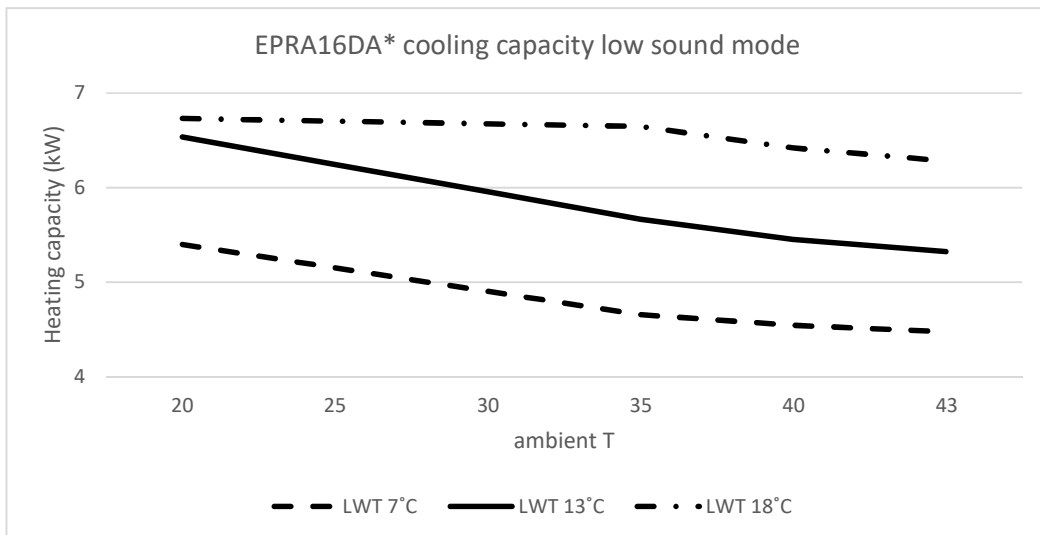
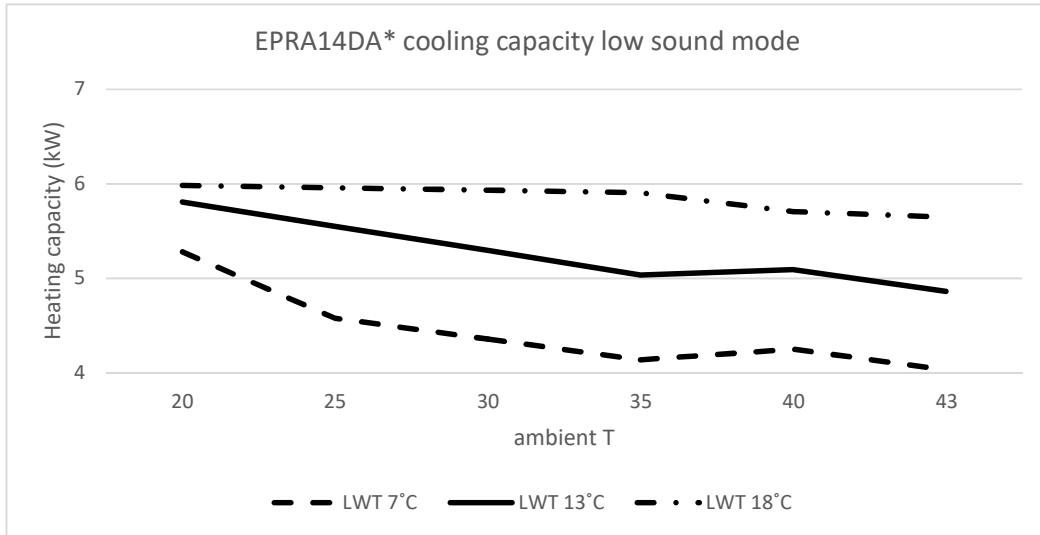


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### 3 Capacity graphs

#### 3 - 4 Cooling Capacity Graphs

EPRA014-018DV

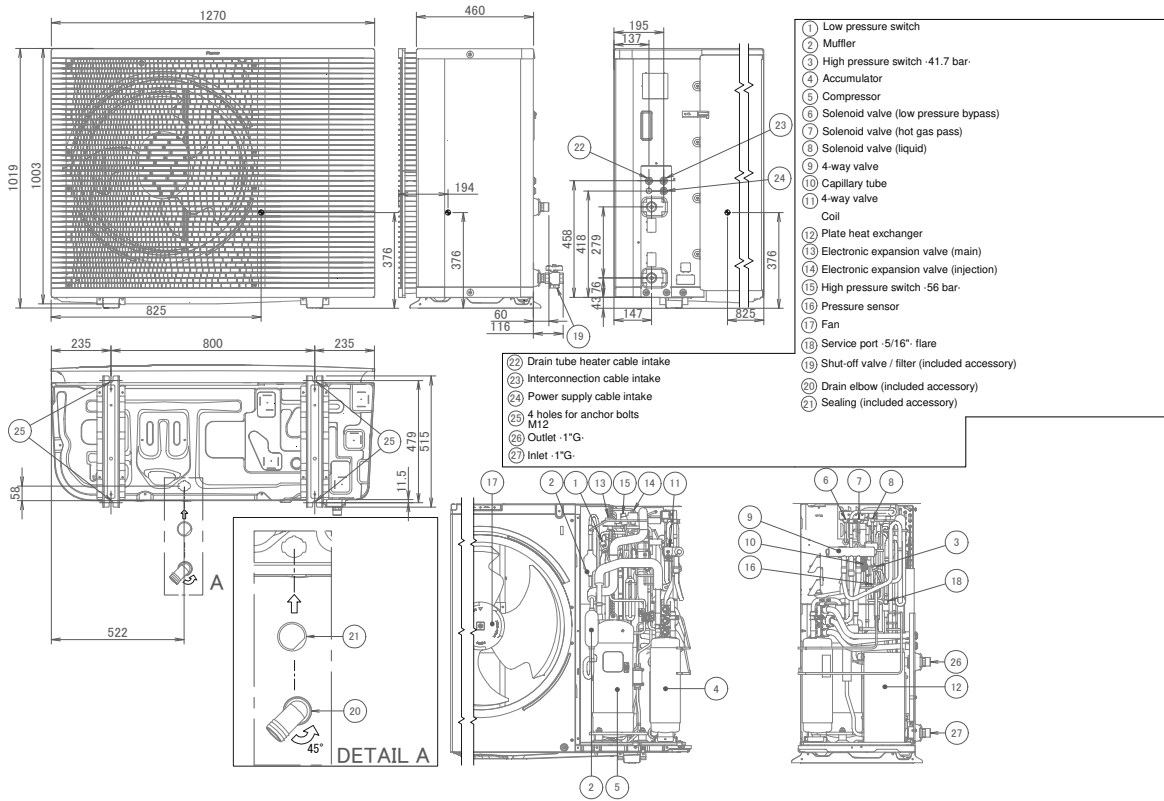


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# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings

EPRA014-018DV  
EPRA014-018DW



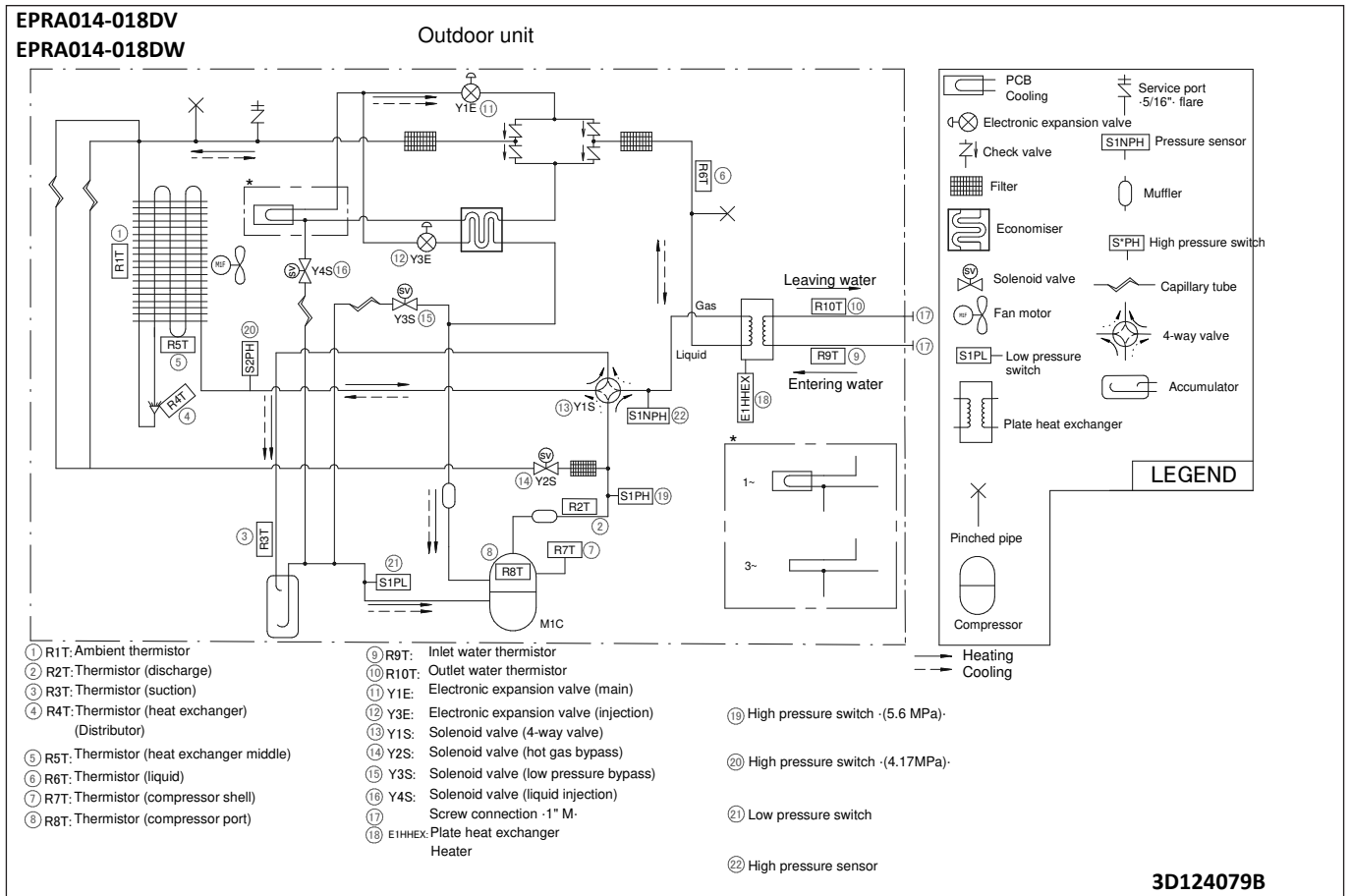
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# 5 Piping diagrams

## 5 - 1 Piping Diagrams

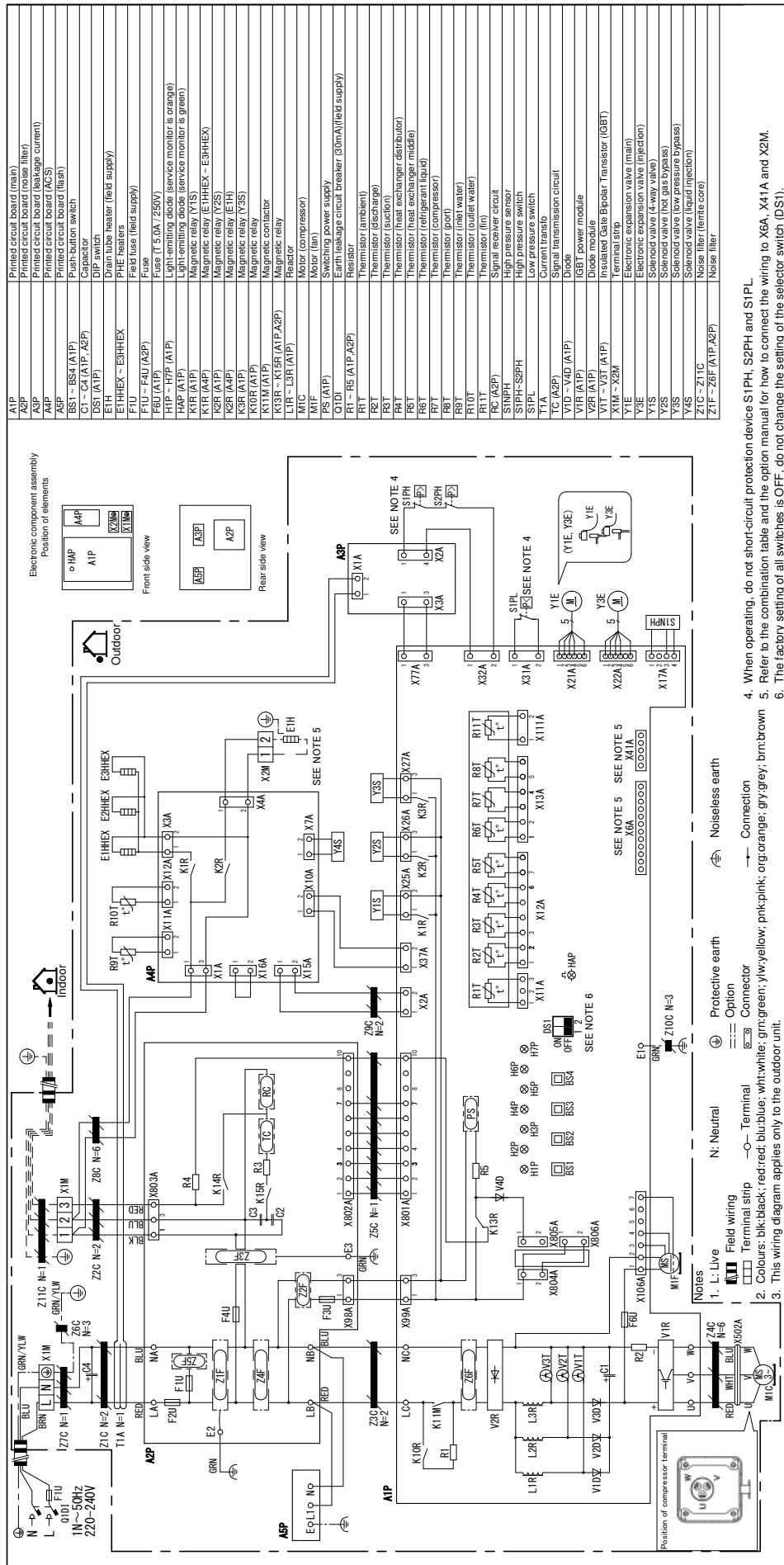
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# 6 Wiring diagrams

## 6 - 1 Wiring Diagrams - Single Phase

EPRA014-018DV



A1P	Printed circuit board (main)
A2P	Printed circuit board (fan)
A3P	Printed circuit board (lockage current)
ASP	Printed circuit board (ACS)
ASP	Printed circuit board (flash)
B51 - B54 (A1P)	Push-button switch
D51 (A1P)	DIP switch
EH	Drain tube heater (field supply)
EHHEX - ESHHEX	PHF heaters
FU1 - F4U (A2P)	Field fuse (field supply)
FUSE	Fuse (T 50A/250V)
L1 (A1P)	Light-limiting diode (service monitor is orange)
L2 (A1P)	Light-limiting diode (service monitor is green)
M1 (A1P)	Magnetic relay (Y1S)
K1R (A1P)	Magnetic relay (EHHEX - ESHHEX)
K2R (A1P)	Magnetic relay (Y2S)
K3R (A1P)	Magnetic relay (E1H)
K10R (A1P)	Magnetic relay (Y3S)
K11M (A1P)	Magnetic relay
K13R - K15R (A1P/A2P)	Magnetic contactor
L1R - L3R (A1P)	Relay
M1C	Motor (compressor)
M1 (fan)	Motor (fan)
R1 (A1P)	Switching power supply
C1D	Switching circuit breaker (50mA)(field supply)
R1 - R5 (A1P/A2P)	Resistor
R2T	Thermistor (ambient)
R3T	Thermistor (discharge)
R4T	Thermistor (suction)
R5T	Thermistor (heat exchanger distributor)
R6T	Thermistor (heat exchanger middle)
R7T	Thermistor (refrigerant liquid)
R8T	Thermistor (compressor)
R9T	Thermistor (port)
R10T	Thermistor (inlet water)
R11T	Thermistor (outlet water)
RC (A2P)	Relay (fan)
RC (A2P)	Signal fan circuit
S1PH	High pressure sensor
S1PH-S2PH	Low pressure switch
T1A	Current transio
TC (A2P)	Signal transmission circuit
VID - V4D (A1P)	Diode
VIR (A1P)	IGBT power module
V2R (A1P)	Diode module
V1T - V3T (A1P)	Insulated Gate Bipolar Transistor (IGBT)
X1M - X2M	Terminal strip
Y1E	Electronic expansion valve (main)
Y2E	Electronic expansion valve (injection)
Y3E	Solenoid valve (dry gas)
Y2S	Solenoid valve (hot gas bypass)
Y3S	Solenoid valve (low pressure bypass)
Y4S	Solenoid valve (liquid injection)
Z1C - Z11C	Noise filter (ferrite core)
Z1F - Z6F (A1P/A2P)	Noise filter

- When operating, do not short-circuit protection device S1PH, S2PH and S1PL.
- Refer to the combination table and the option manual for how to connect the wiring to X6A, X41A and X2M.
- The factory setting of all switches is OFF, do not change the setting of the selector switch (DS1).

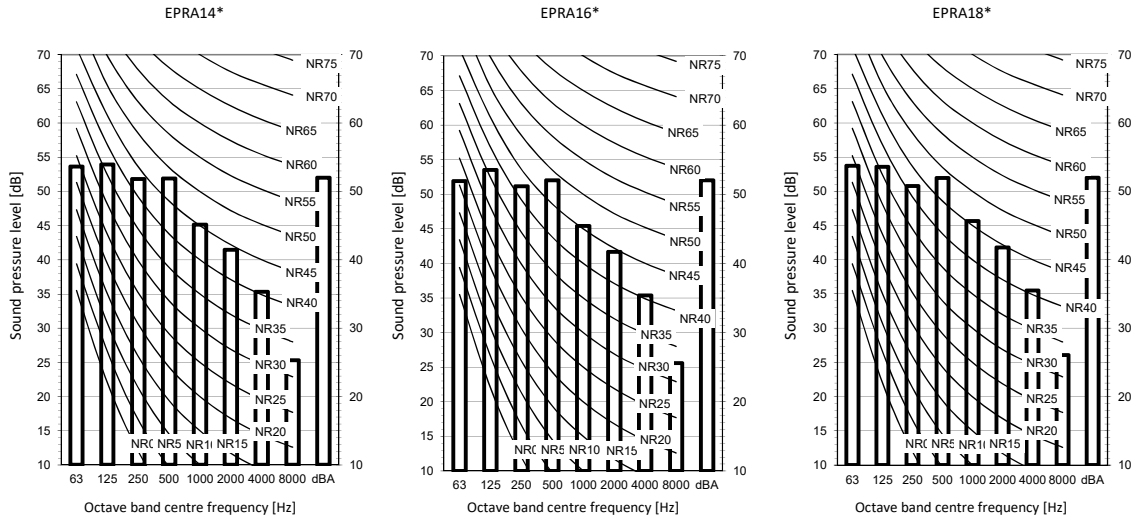
2D124518A

# 7 Sound data

## 7 - 1 Sound Pressure Spectrum - Cooling

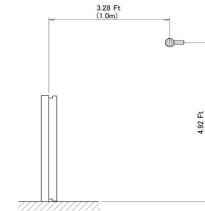
7

EPRA014-018DV  
EPRA014-018DW Cooling Sound



**Notes**

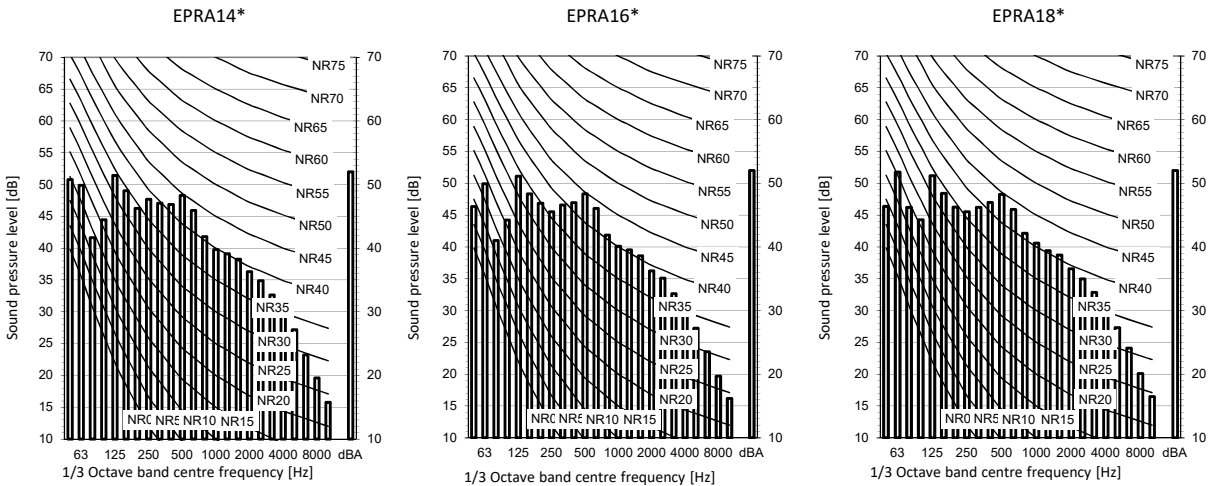
1. Data is valid at free field condition.  
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa
5. If the sound is measured under actual installation conditions,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



Measuring location (discharge side)

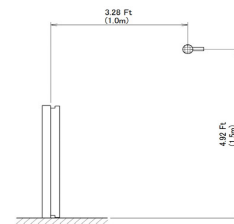
3D126758-1

EPRA014-018DV  
EPRA014-018DW



**Notes**

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



Measuring location (discharge side)

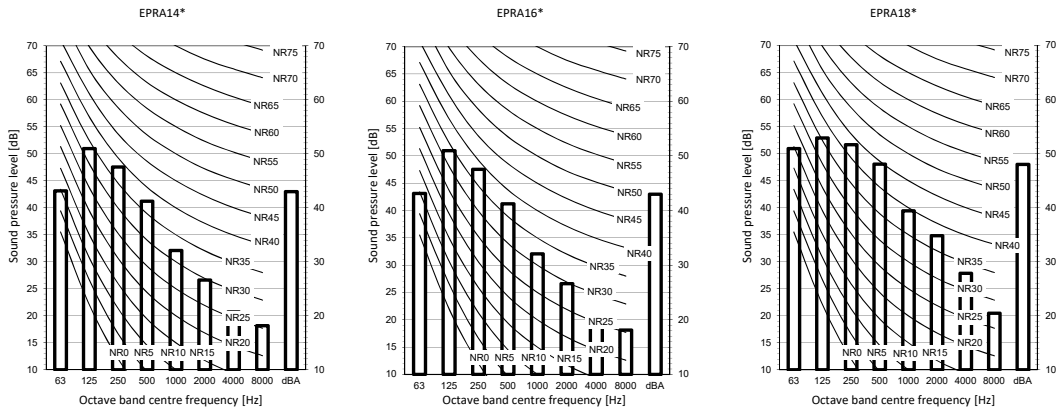
3D126758-2

# 7 Sound data

## 7 - 2 Sound Pressure Spectrum - Heating

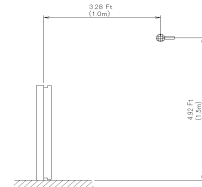
**EPRA014-018DV**  
**EPRA014-018DW**

**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.

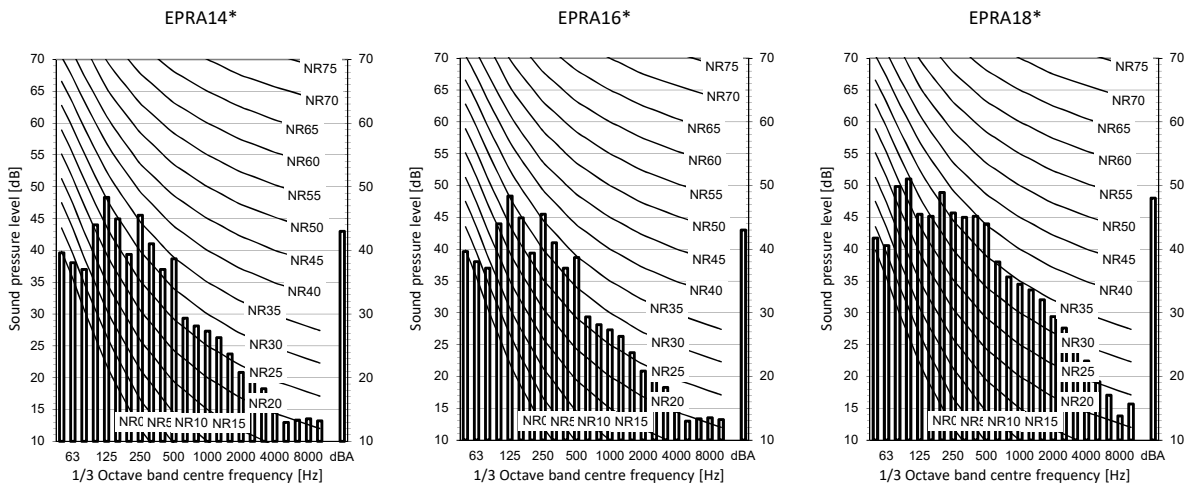


		Day			Night		
		Sound power level [dB]			Sound power level [dB]		
Day	Night	EPRA14*	EPRA16*	EPRA18*	EPRA14*	EPRA16*	EPRA18*
Default	Low noise level -2	60,2	60,2	60,2	53,7	53,7	53,7
Low noise level -2	Low noise level -3	53,7	53,7	53,7	49,5	49,5	49,5

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

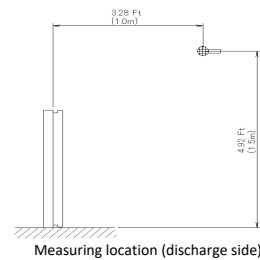
**3D125215A-1**

**EPRA014-018DV**  
**EPRA014-018DW**



**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**

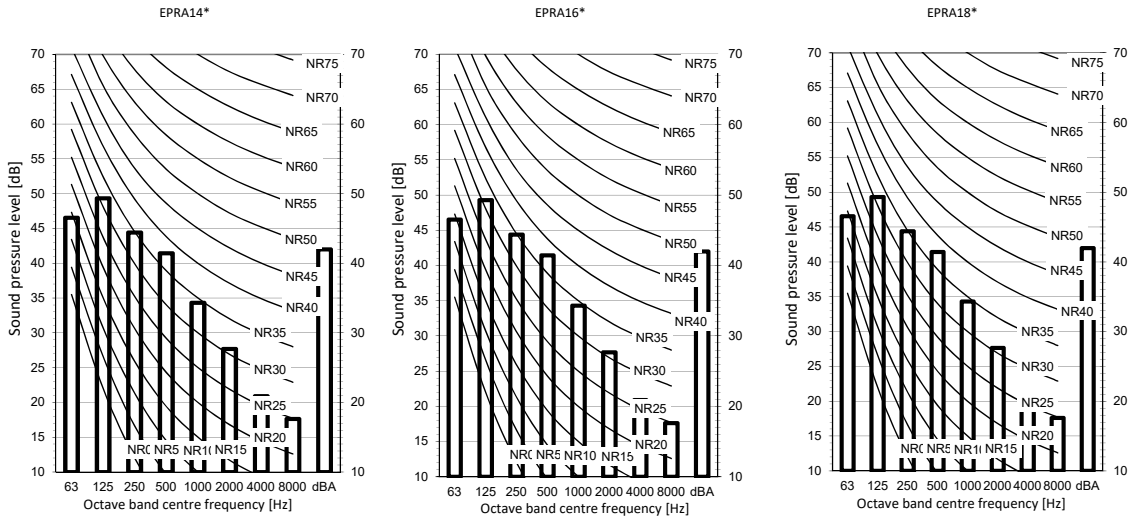
# 7 Sound data

## 7 - 3 Sound Pressure Spectrum Quiet Mode

7

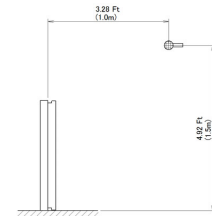
EPRA014-018DV  
EPRA014-018DW

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.



Measuring location (discharge side)

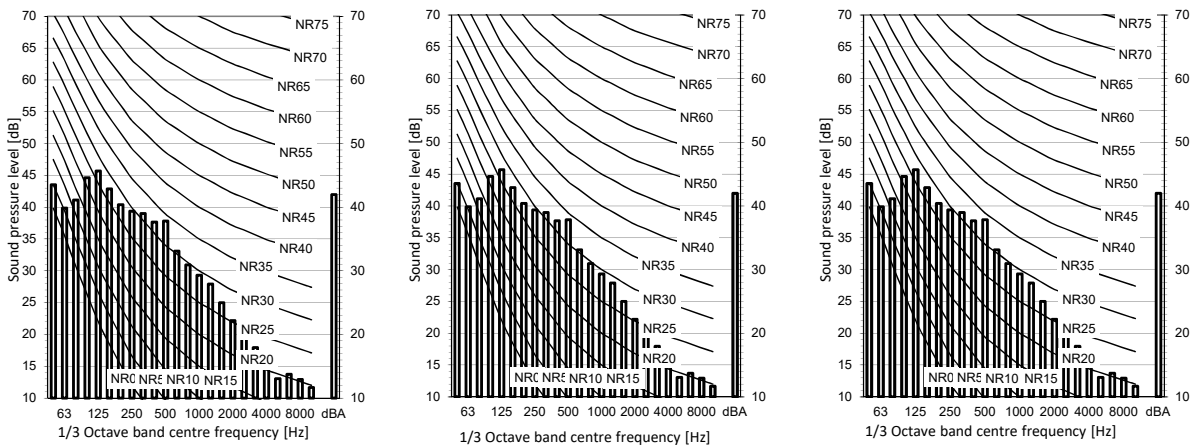
3D125214-1

EPRA014-018DV  
EPRA014-018DW

EPRA14\*

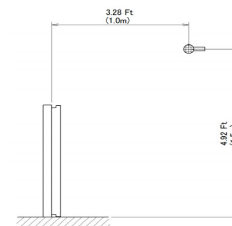
EPRA16\*

EPRA18\*



Notes

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



Measuring location (discharge side)

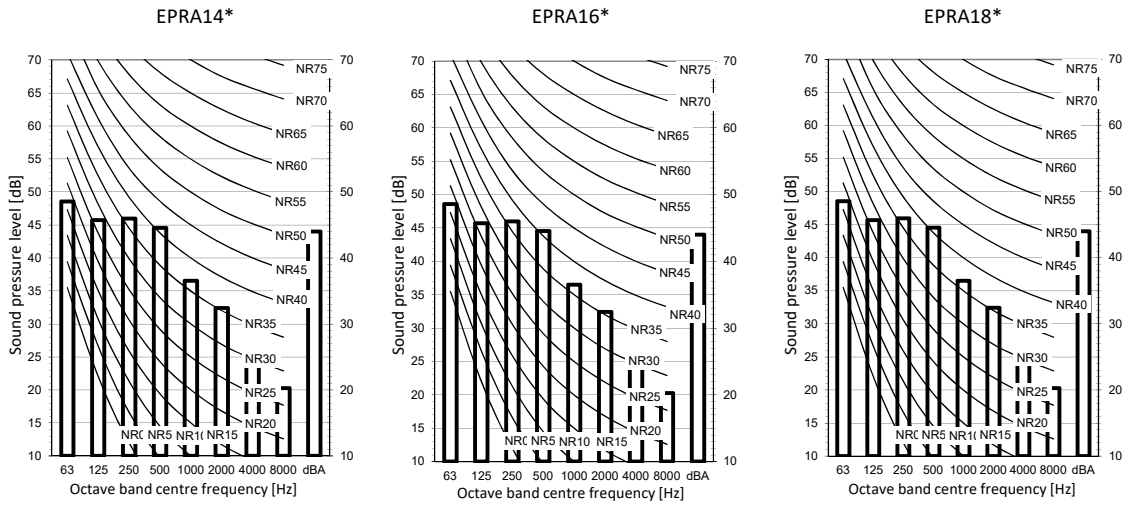
3D125214-2

# 7 Sound data

## 7 - 3 Sound Pressure Spectrum Quiet Mode

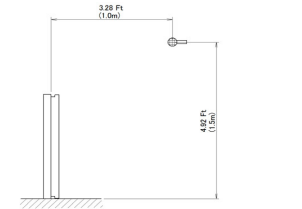
EPRA014-018DV

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.

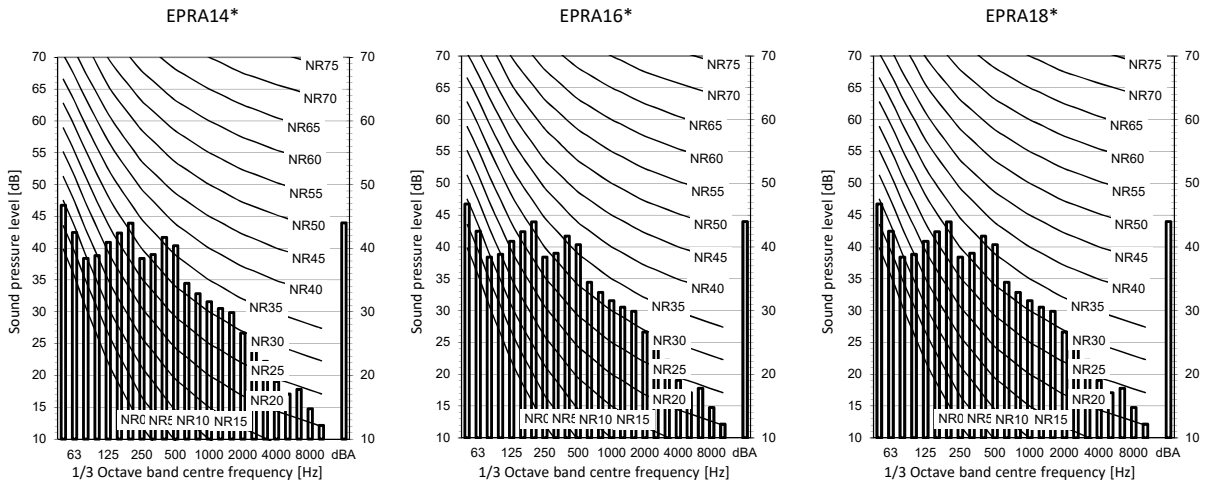


Measuring location (discharge side)

3D126757-1

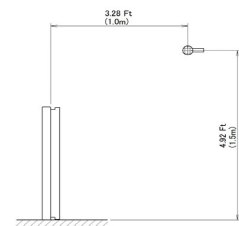
EPRA014-018DV

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

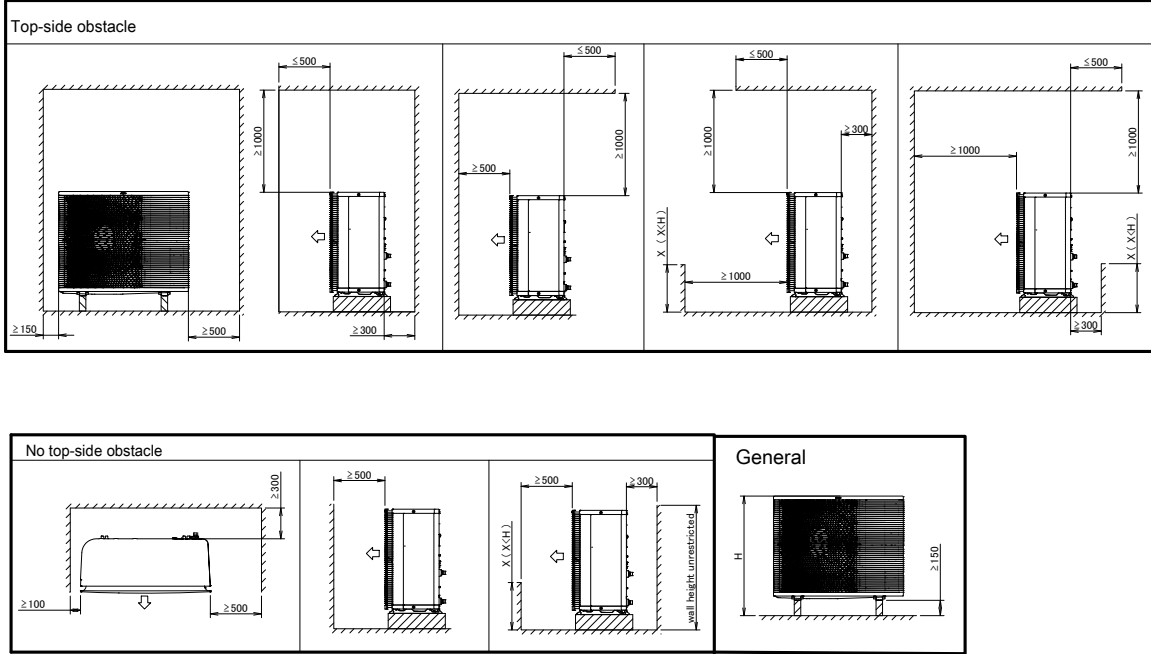
# 8 Installation

## 8 - 1 Installation Method

8

EPRA014-018DV  
EPRA014-018DW

Minimum space for air passage

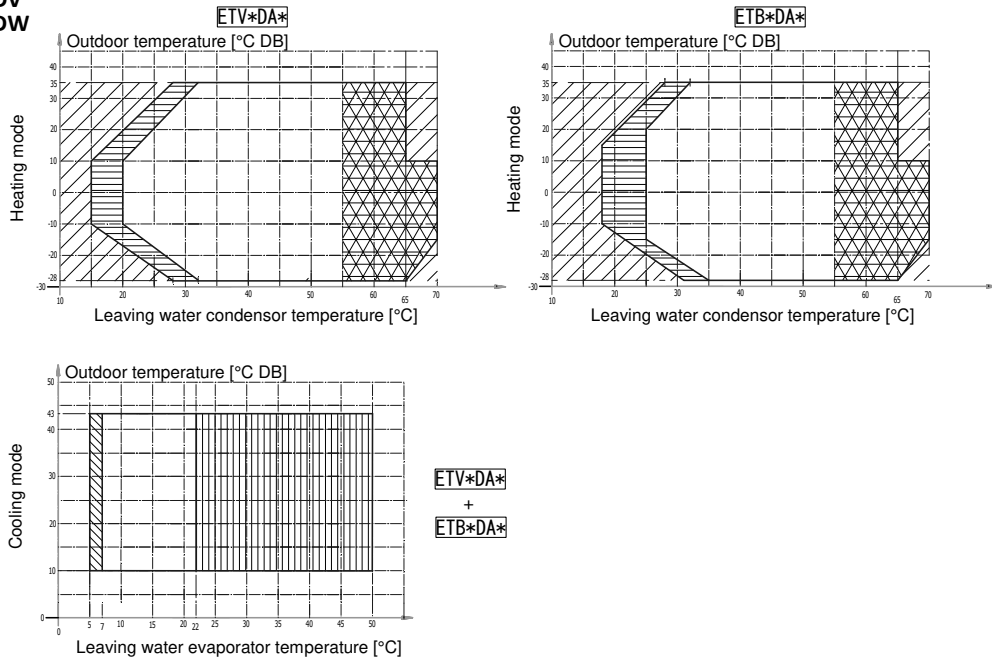


3D124412

# 9 Operation range

## 9 - 1 Operation Range

EPRA014-018DV  
EPRA014-018DW



**Legend**

- Backup heater only operation  
No outdoor unit operation
- Outdoor unit operation if setpoint ≥ -20.
- Pull-down area
- Outdoor unit operation if setpoint > -55.°C and ΔT = -10.°C (ΔT = outlet temperature – inlet temperature)
- In case valve kit -AFVALVE1- is part of the system, then the minimum setpoint is -7.°C.

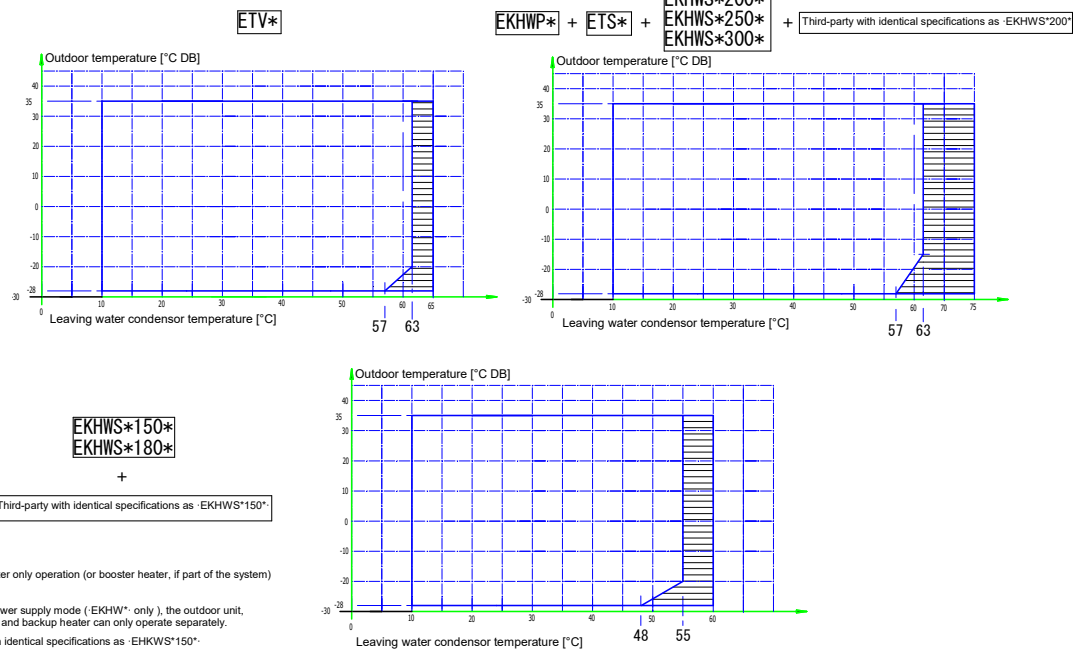
**Remark**

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

3D125788

EPRA014-018DV  
EPRA014-018DW

**Domestic hot water heating mode**



**Legend**

- Backup heater only operation (or booster heater, if part of the system)

**Remark**

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

3D125789B



# 10 Capacity tables

## 10 - 1 Certification Programs

3

### EPRA014-018DW

### EPRA014-018DV

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	5,90	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

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

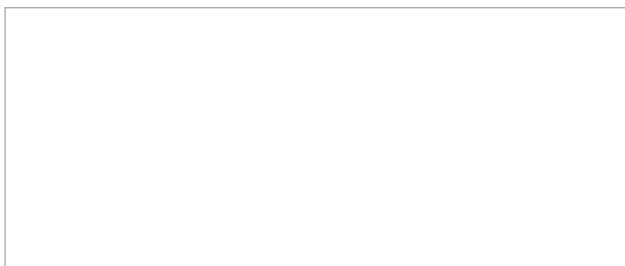
Indoor unit	ETV*16S18DA*		ETV*16S23DA*		ETSH16P30DA		ETSHB16P30DA		ETSX16P30DA		ETSB16P30DA	
Outdoor unit	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3
Application	Average climate		Average climate		Average climate							
Domestic hot water tank volume	180L		230L		294L							
Tapping pattern	L		XL		L							
Heat-up time (hh: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
θ <sub>wh</sub> [°C]	52,5		52,5		47,0							
P <sub>es</sub> [W]	34,2	42,9	49,2	58,5	49,0							
V <sub>40</sub> [l]	240		298		149,0							
η <sub>wh</sub> [%]	109,5	105,7	108,3	106,6	101							
COP <sub>DHW</sub> [l]	2,62	2,51	2,61	2,55	2,38							

Indoor unit	ETSH16P50DA		ETSHB16P50DA		ETSH16P50DA		ETSB16P50DA		Used for:
Outdoor unit	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	
Application	Average climate								Keymark
Domestic hot water tank volume	477L								
Tapping pattern	XL								
Heat-up time (hh:mm:ss)	02:18:00		01:46:00	02:11:00	02:18:00		01:46:00	02:11:00	
θ <sub>wh</sub> [°C]	47,0		48,0		47,0		48,0		
P <sub>es</sub> [W]	51,0		57,1	57,6	51,0		57,1	57,6	
V <sub>40</sub> [l]	237,2		215,7	211,0	237,2		215,7	211,0	
η <sub>wh</sub> [%]	111		115		108		111		
COP <sub>DHW</sub> [l]	2,67		2,75		2,58		2,67		

### 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 condensor temperature [°C]
- EWE Entering water evaporator temperature [°C]
- LWE Leaving water evaporator temperature [°C]
- Tamb Ambient temperature [°C DB/WB]
- θ<sub>wtr</sub> Reference Domestic hot water temperature [°C] According to EN16147.
- P<sub>es</sub> Standby power input According to EN16147.
- V<sub>eq40</sub> Equivalent domestic hot water volume [l] According to EN16147.
- η<sub>wh</sub> Efficiency [%] Domestic hot water heating mode According to EN16147.
- COP<sub>DHW</sub> Domestic hot water COP

**4D126945A**



03/2020

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