



Daikin Altherma high
temperature split
Technical Data

EPRA014-018DW

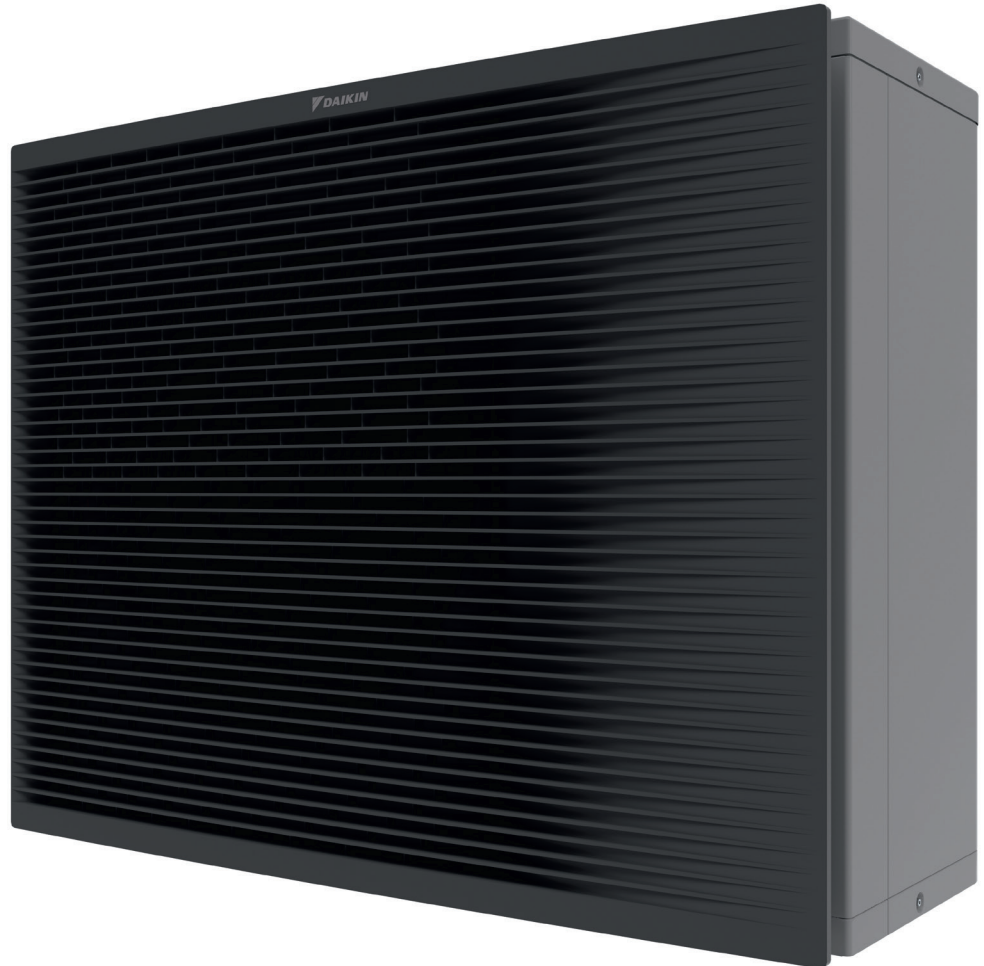


Table of contents

EPRA014-018DW

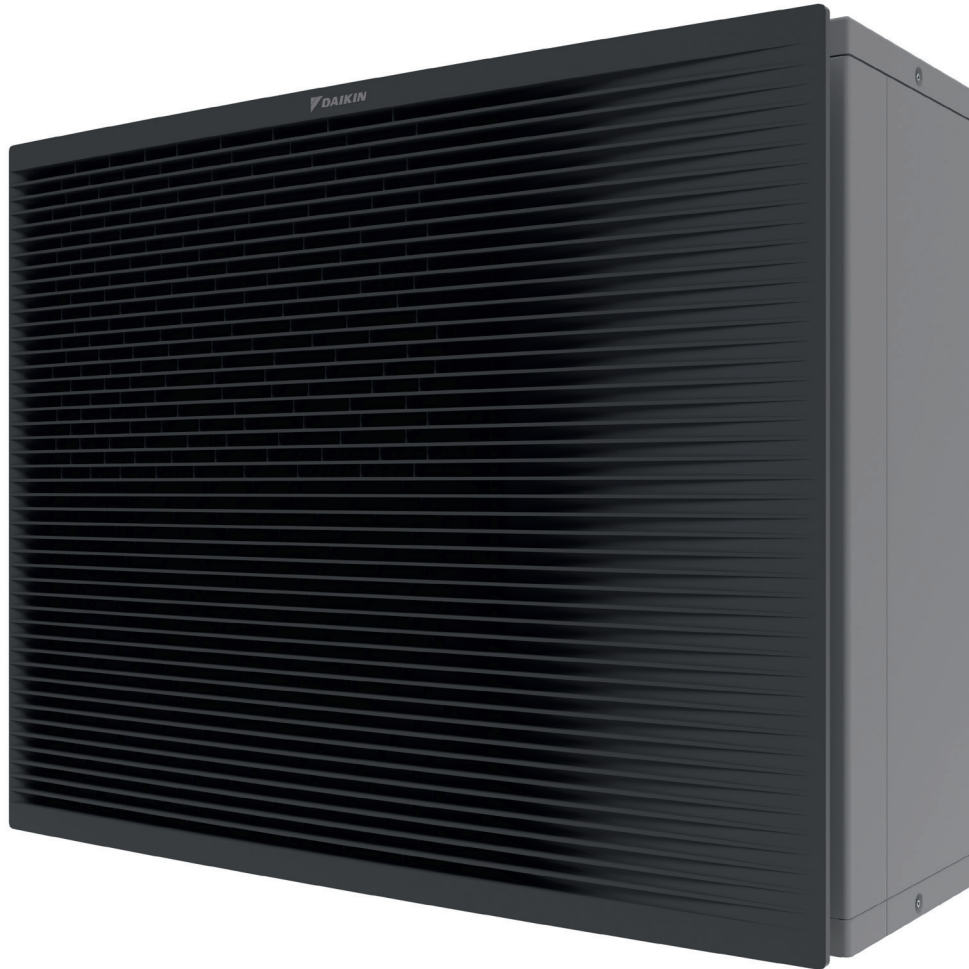
1	Features	4
	EPRA014-018DW	4
2	Specifications	5
3	Capacity graphs	92
	Heating Capacity Graphs	92
	Cooling Capacity Graphs	94
	Dimensional drawings	96
4	Dimensional Drawings	96
	Piping diagrams	97
5	Piping Diagrams	97
	Wiring diagrams	98
6	Wiring Diagrams - Three Phase	98
	Sound data	99
7	Sound Pressure Spectrum - Cooling	99
	Sound Pressure Spectrum - Heating	100
	Sound Pressure Spectrum Quiet Mode	101
	Installation	103
8	Installation Method	103
	Operation range	104
9	Operation Range	104
	Certification Programs	105
10	Certification Programs	105

1 Features

1 - 1 EPRA014-018DW

- › 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

1



Guaranteed operation down to -28°C

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications					ETBH16D6V + EPRA14DW1	ETBH16D6V + EPRA16DW1	ETBH16D6V + EPRA18DW1		
Indoor unit					ETBH16DA6V				
Outdoor unit					EPRA14DAW1	EPRA16DAW1	EPRA18DAW1		
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					4.66 (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			
LW(A) Sound power level (according to EN14825)					Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825				
Space heating general	Other	Capacity control		Inverter					
		Pck (Crankcase heater mode)		kW				0.000	
		Poff (Off mode)		kW				0.031	
		Psb (Standby mode)		kW				0.042	
		Pto (Thermostat off)		kW				0.033	
	Integrated supplementary heater	Psup		kW				6.0	
		Type of energy input						Electrical	
Space heating	Average climate water outlet 55°C	General	Annual energy consumption		kWh			7,236	
			s (Seasonal space heating efficiency)		%			140	
			Prated at -10°C		kW			13	
			Qhe Annual energy consumption (GCV)		Gj			26	
			SCOP					3.57	
			Seasonal space heating eff. class					A++	
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)					1.0
				COPd					2.43
				Pdh		kW			11.1
				PERd		%			97.2
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)					1.0
				COPd					3.52
				Pdh		kW			6.7
				PERd		%			140.8
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)					1.0
COPd					4.54				
Pdh		kW			6.5				
PERd		%			181.6				
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)					1.0			

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETBH16D6V + EPRA14DW1	ETBH16D6V + EPRA16DW1	ETBH16D6V + EPRA18DW1	
Space heating Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd			5.97		
		Pdh	kW		5.2		
		PERd	%		238.8		
		Tol (temperature operating limit)	COPd		2.12		
		Pdh	kW		12.5		
		PERd	%		84.8		
		TOL	°C		-10		
	Rated heat output	Psup (at Tdesign -10°C)	kW		0.0		
		Tbiv (bivalent temperature)	COPd		2.12		
			Pdh	kW	12.5		
	PERd		%	84.8			
	Cold climate water outlet 55°C	General	Annual energy consumption	kWh		9,658	
			ηs (Seasonal space heating efficiency)	%		125	
			Prated at -22°C	kW		13	
Qhe Annual energy consumption (GCV)			Gj		35		
A Condition (-7°CDB/-8°CWB)		CdH (Degradation heating)			1.0		
		COPd			2.74		
		Pdh	kW		7.5		
B Condition (2°CDB/1°CWB)		CdH (Degradation heating)			1.0		
		COPd			3.67		
		Pdh	kW		5.8		
C Condition (7°CDB/6°CWB)		CdH (Degradation heating)			1.0		
		COPd			4.69		
		Pdh	kW		5.6		
D Condition (12°CDB/11°CWB)		CdH (Degradation heating)			1.0		
	COPd			6.12			
	Pdh	kW		6.2			
Tol (temperature operating limit)	COPd			244.8			
	Pdh	kW		1.65			
	PERd	%		10.6			
	TOL	°C		66.0			
G Condition (-15°CDB/-)	CdH (Degradation heating)			-22			
	COPd			55			
	Pdh	kW		2.17			
	PERd	%		10.3			
Tbiv (bivalent temperature)	COPd			86.8			
	Pdh	kW		1.90			
	PERd	%		11.0			
Rated heat output	Psup (at Tdesign -22°C)	kW		76.0			
	Tbiv	°C		-18			
Warm climate water outlet 55°C	General	Annual energy consumption	kWh		1.9		
		ηs (Seasonal space heating efficiency)	%		4,063		
		Prated at 2°C	kW		13		
		Qhe Annual energy consumption (GCV)	Gj		15		
	B Condition (2°CDB/1°CWB)	CdH (Degradation heating)			1.0		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBH16D6V + EPRA14DW1	ETBH16D6V + EPRA16DW1	ETBH16D6V + EPRA18DW1
Space heating 	Warm climate water outlet 55°C	B Condition (2°CDB/1°CWB)	COPd		2.62	
			Pdh kW		11.4	
			PERd %		104.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.65	
			Pdh kW		8.2	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.37	
			Pdh kW		6.1	
		Tbiv (bivalent temperature)	PERd %		214.8	
	COPd			3.18		
	Pdh kW			11.0		
	Water outlet 45°C	H Condition (2°C / -)	Tbiv °C		4	
			Max. kW	11.1		11.8
	Average climate water outlet 35°C	General	SCOP		4.71	
			Annual energy consumption kWh		5,479	
			s (Seasonal space heating efficiency) %		186	
			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		2.97		
		Pdh kW		10.7		
		PERd %		118.8		
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0		
		COPd		4.94		
		Pdh kW		6.9		
C Condition (7°CDB/6°CWB)		PERd %		197.6		
		Cdh (Degradation heating)		1.0		
		COPd		5.95		
D Condition (12°CDB/11°CWB)	Pdh kW		6.2			
	PERd %		238.0			
	Cdh (Degradation heating)		1.0			
Tol (temperature operating limit)	COPd		7.07			
	Pdh kW		5.6			
	PERd %		282.8			
	TOL °C		2.88			
	WTOL °C		12.1			
Tbiv (bivalent temperature)	PERd %		115.2			
	COPd		2.97			
	Pdh kW		10.7			
	PERd %		118.8			
Rated heat output	Tbiv °C	Tbiv °C		-7		
		Psup (at Tdesign -10°C) kW		0.4		
Cold climate water outlet 35°C	General	Annual energy consumption kWh		7,425		
		s (Seasonal space heating efficiency) %		163		
		Prated at -22°C kW		13		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETBH16D6V + EPRA14DW1	ETBH16D6V + EPRA16DW1	ETBH16D6V + EPRA18DW1	
Space heating Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj		27		
		A COPd			3.50		
		Condition Pdh	kW		8.0		
		(-7°CDB/-8°CWB)	PERd	%		140.0	
		B Condition Cdh (Degradation heating)			1.0		
		(2°CDB/1°CWB)	COPd			5.07	
		Pdh	kW		4.9		
		PERd	%		202.8		
		C Condition Cdh (Degradation heating)			1.0		
		(7°CDB/6°CWB)	COPd			6.10	
		Pdh	kW		5.3		
		PERd	%		244.0		
		D Condition Cdh (Degradation heating)			1.0		
		(12°CDB/11°CWB)	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 COPd			2.62		
		(-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	Psup (at Tdesign -22°C)	kW		2.4			
Warm climate water outlet 35°C	General	Annual energy consumption	kWh		2,992		
		s (Seasonal space heating efficiency)	%		220		
		Prated at 2°C	kW		13		
		Qhe Annual energy consumption (GCV)	Gj		11		
		B Condition Cdh (Degradation heating)			1.0		
		(2°CDB/1°CWB)	COPd			3.51	
		Pdh	kW		10.0		
		PERd	%		140.4		
		C Condition Cdh (Degradation heating)			1.0		
		(7°CDB/6°CWB)	COPd			5.67	
		Pdh	kW		8.3		
		PERd	%		226.8		
		Tbiv (bivalent temperature)	COPd		4.96		
		Pdh	kW		9.8		
		PERd	%		198.4		
		Tbiv	°C		5		
		D Condition Cdh (Degradation heating)			1.0		
		(12°CDB/11°CWB)	COPd			7.04	
		Pdh	kW		5.7		
		PERd	%		281.6		

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

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

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

(4)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 + EPRA14DW1	ETBH16D9W + EPRA16DW1	ETBH16D9W + EPRA18DW1
Indoor unit		ETBH16SDA9W	
Outdoor unit	EPRA14DAW1	EPRA16DAW1	EPRA18DAW1

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications					ETBH16D9W + EPRA14DW1	ETBH16D9W + EPRA16DW1	ETBH16D9W + EPRA18DW1	
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				4.66 (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 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		dB(A)	44.0			
		Outdoor		dB(A)	54.0			
	Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Other	Capacity control			Inverter			
		Pck (Crankcase heater mode)	kW	0.000				
		Poff (Off mode)	kW	0.031				
		Psb (Standby mode)	kW	0.042				
		Pto (Thermostat off)	kW	0.033				
	Integrated supplementary heater	Psup	kW	9.0				
		Type of energy input			Electrical			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236			
			Seasonal space heating efficiency	%	140			
			Prated at -10°C	kW	13			
			Qhe Annual energy consumption (GCV)	Gj	26			
			SCOP		3.57			
			Seasonal space heating eff. class		A++			
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0		
				COPd		2.43		
				Pdh	kW	11.1		
				PERd	%	97.2		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		
				COPd		3.52		
				Pdh	kW	6.7		
				PERd	%	140.8		
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		
				COPd		4.54		
				Pdh	kW	6.5		
PERd	%	181.6						
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0					

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETBH16D9W + EPRA14DW1	ETBH16D9W + EPRA16DW1	ETBH16D9W + EPRA18DW1	
Space heating Average climate water outlet 55°C	D Condition (12°CDB/11°CWB)	COPd		5.97		
		Pdh kW		5.2		
		PERd %		238.8		
	Tol (temperature operating limit)	COPd		2.12		
		Pdh kW		12.5		
		PERd %		84.8		
		TOL °C		-10		
		WTOL °C		55		
	Rated heat output	Psup (at Tdesign -10°C) kW		0.0		
		Tbiv (bivalent temperature)	COPd		2.12	
	Pdh kW			12.5		
	PERd %			84.8		
	Tbiv °C			-10		
	Cold climate water outlet 55°C	General	Annual energy consumption kWh		9,658	
			ηs (Seasonal space heating efficiency) %		125	
Prated at -22°C kW				13		
Qhe Annual energy consumption (GCV) GJ				35		
A Condition (-7°CDB/-8°CWB)		Cdh (Degradation heating)		1.0		
		COPd		2.74		
		Pdh kW		7.5		
PERd %				109.6		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.67	
Pdh kW				5.8		
PERd %				146.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		4.69	
Pdh kW				5.6		
PERd %			187.6			
	D Condition (12°CDB/11°CWB)	COPd		6.12		
		Pdh kW		6.2		
PERd %			244.8			
Tol (temperature operating limit)	COPd		1.65			
	Pdh kW		10.6			
	PERd %		66.0			
	TOL °C		-22			
	WTOL °C		55			
G Condition (-15°CDB/-)	COPd		2.17			
	Pdh kW		10.3			
	PERd %		86.8			
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			
	General	Annual energy consumption kWh		4,063		
ηs (Seasonal space heating efficiency) %			161			
Prated at 2°C kW			13			
Qhe Annual energy consumption (GCV) GJ			15			
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBH16D9W + EPRA14DW1	ETBH16D9W + EPRA16DW1	ETBH16D9W + EPRA18DW1
Space heating 	Warm climate water outlet 55°C	B Condition (2°CDB/1°CWB)	COPd		2.62	
			Pdh kW		11.4	
			PERd %		104.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.65	
			Pdh kW		8.2	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.37	
			Pdh kW		6.1	
		Tbiv (bivalent temperature)	PERd %		214.8	
			COPd		3.18	
			Pdh kW		11.0	
	Water outlet 45°C	H Condition (2°C / -)	Tbiv °C		4	
			Max. kW	11.1		11.8
	Average climate water outlet 35°C	General	SCOP		4.71	
			Annual energy consumption kWh		5,479	
			s (Seasonal space heating efficiency) %		186	
			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		2.97		
		Pdh kW		10.7		
		PERd %		118.8		
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)		1.0		
		COPd		4.94		
		Pdh kW		6.9		
C Condition (7°CDB/6°CWB)		PERd %		197.6		
		Cdh (Degradation heating)		1.0		
	COPd		5.95			
D Condition (12°CDB/11°CWB)	Pdh kW		6.2			
	PERd %		238.0			
	Cdh (Degradation heating)		1.0			
Tol (temperature operating limit)	COPd		7.07			
	Pdh kW		5.6			
	PERd %		282.8			
Tbiv (bivalent temperature)	COPd		2.88			
	Pdh kW		12.1			
	PERd %		115.2			
Rated heat output	TOL °C		-10			
	WTOL °C		35			
	COPd		2.97			
Cold climate water outlet 35°C	General	Pdh kW		10.7		
		PERd %		118.8		
		Tbiv °C		-7		
		Psup (at Tdesign -10°C) kW		0.4		
		Annual energy consumption kWh		7,425		
		s (Seasonal space heating efficiency) %		163		
		Prated at -22°C kW		13		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETBH16D9W + EPRA14DW1	ETBH16D9W + EPRA16DW1	ETBH16D9W + EPRA18DW1
Space heating Cold climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj		27	
		A COPd			3.50	
		Condition Pdh	kW		8.0	
		(-7°CDB/-8°CWB) PERd	%		140.0	
		B Condition Cdh (Degradation heating)			1.0	
		(2°CDB/1°CWB) COPd			5.07	
		Pdh	kW		4.9	
		PERd	%		202.8	
		C Condition Cdh (Degradation heating)			1.0	
		(7°CDB/6°CWB) COPd			6.10	
		Pdh	kW		5.3	
		PERd	%		244.0	
		D Condition Cdh (Degradation heating)			1.0	
		(12°CDB/11°CWB) 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 COPd			2.62	
		Condition Pdh	kW		10.7	
		(-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		2,992	
		s (Seasonal space heating efficiency)	%		220	
		Prated at 2°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		11	
		B Condition Cdh (Degradation heating)			1.0	
		(2°CDB/1°CWB) COPd			3.51	
		Pdh	kW		10.0	
		PERd	%		140.4	
		C Condition Cdh (Degradation heating)			1.0	
		(7°CDB/6°CWB) COPd			5.67	
		Pdh	kW		8.3	
		PERd	%		226.8	
		Tbiv (bivalent temperature) COPd			4.96	
		Pdh	kW		9.8	
		PERd	%		198.4	
		Tbiv	°C		5	
		D Condition Cdh (Degradation heating)			1.0	
		(12°CDB/11°CWB) COPd			7.04	
		Pdh	kW		5.7	
		PERd	%		281.6	

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
 (2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C) |
 (3)Power input is total input of indoor and outdoor units, including the circulation pump; according to EN14511 |
 (4)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 + EPRA14DW1	ETBX16D6V + EPRA16DW1	ETBX16D6V + EPRA18DW1
Indoor unit		ETBX16DA6V	
Outdoor unit	EPRA14DAW1	EPRA16DAW1	EPRA18DAW1

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBX16D6V + EPRA14DW1	ETBX16D6V + EPRA16DW1	ETBX16D6V + EPRA18DW1	
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				4.66 (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 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	Water-to-water heat pump			No		
		Indoor		dB(A)	44.0		
LW(A) Sound power level (according to EN14825)	Outdoor		dB(A)	54.0			
Sound condition Ecodesign and energy label				Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			
Space heating general	Other	Capacity control			Inverter		
		Pck (Crankcase heater mode)		kW	0.000		
		Poff (Off mode)		kW	0.031		
		Psb (Standby mode)		kW	0.042		
		Pto (Thermostat off)		kW	0.033		
	Integrated supplementary heater	Psup			6.0		
		Type of energy input			Electrical		
Space heating Average climate water outlet 55°C	General	Annual energy consumption			7,122		
		s (Seasonal space heating efficiency)			142		
		Prated at -10°C			13		
		Qhe Annual energy consumption (GCV)			26		
		SCOP			3.63		
		Seasonal space heating eff. class			A++		
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0	
			COPd			2.43	
			Pdh			11.1	
			PERd			97.2	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0	
			COPd			3.52	
			Pdh			6.7	
			PERd			140.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0	
			COPd			4.54	

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBX16D6V + EPRA14DW1	ETBX16D6V + EPRA16DW1	ETBX16D6V + EPRA18DW1	
Space heating Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Pdh	kW		6.5		
		PERd	%		181.6		
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			1.0	
			COPd			5.97	
			Pdh	kW		5.2	
			PERd	%		238.8	
		Tol (temperature operating limit)	COPd			2.12	
			Pdh	kW		12.5	
			PERd	%		84.8	
			TOL	°C		-10	
	Rated heat output	Psup (at Tdesign -10°C)			0.0		
		Tbiv (bivalent temperature)	COPd			2.12	
	Pdh		kW		12.5		
	PERd		%		84.8		
	Tbiv		°C		-10		
	Cold climate water outlet 55°C	General	Annual energy consumption			9,589	
			ηs (Seasonal space heating efficiency)	%		126	
			Prated at -22°C	kW		13	
			Qhe Annual energy consumption (GCV)	Gj		35	
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)			1.0	
COPd					2.74		
Pdh			kW		7.5		
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			
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)			1.9			
	General	Annual energy consumption			3,926		
Warm climate water outlet 55°C		ηs (Seasonal space heating efficiency)	%		167		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBX16D6V + EPRA14DW1	ETBX16D6V + EPRA16DW1	ETBX16D6V + EPRA18DW1		
Space heating 	Warm climate water outlet 55°C	General	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		2.62	
				PERd	%		11.4	
							104.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd			1.0	
				Pdh	kW		3.65	
				PERd	%		8.2	
							146.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd			1.0	
				Pdh	kW		5.37	
				PERd	%		6.1	
							214.8	
		Tbiv (bivalent temperature)	COPd	Pdh	kW		3.18	
				PERd	%		11.0	
							127.2	
				Tbiv	°C		4	
		Water outlet 45°C (-2°C/-)	H Condition	Max.	kW	11.1		11.8
		Average climate water outlet 35°C	General	SCOP			4.81	
Annual energy consumption	kWh				5,366			
s (Seasonal space heating efficiency)	%				190			
Prated at -10°C	kW				13			
Qhe Annual energy consumption (GCV)	Gj				19			
Seasonal space heating eff. class					A+++			
A Condition (-7°CDB/-8°CWB)	COPd			Pdh	kW		2.97	
				PERd	%		10.7	
							118.8	
B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			COPd			1.0	
				Pdh	kW		4.94	
				PERd	%		6.9	
							197.6	
C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			COPd			1.0	
				Pdh	kW		5.95	
				PERd	%		6.2	
							238.0	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			COPd			1.0	
				Pdh	kW		7.07	
				PERd	%		5.6	
					282.8			
Tol (temperature operating limit)	COPd	Pdh	kW		2.88			
		PERd	%		12.1			
		TOL	°C		115.2			
		WTOL	°C		-10			
					35			
Tbiv (bivalent temperature)	COPd	Pdh	kW		2.97			
		PERd	%		10.7			
					118.8			
		Tbiv	°C		-7			
Rated heat output	Psup (at Tdesign -10°C)		kW		0.4			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBX16D6V + EPRA14DW1	ETBX16D6V + EPRA16DW1	ETBX16D6V + EPRA18DW1		
Space heating Cold climate water outlet 35°C	General	Annual energy consumption	kWh		7,356			
		Seasonal space heating efficiency	%		165			
		Prated at -22°C	kW		13			
		Qhe Annual energy consumption (GCV)	Gj		26			
		A Condition	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 Condition (-15°CDB/-)	WTOL	°C	35			
			COPd		2.62			
			Pdh	kW	10.7			
			PERd	%	104.8			
		Tbiv (bivalent temperature)	COPd		2.62			
Pdh	kW		10.7					
PERd	%		104.8					
Rated heat output	Tbiv	°C	-15					
	Psup (at Tdesign -22°C)	kW	2.4					
Warm climate water outlet 35°C	General	Annual energy consumption	kWh		2,855			
		Seasonal space heating efficiency	%		231			
		Prated at 2°C	kW		13			
		Qhe Annual energy consumption (GCV)	Gj		10			
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			
			COPd		3.51			
			Pdh	kW	10.0			
			PERd	%	140.4			
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			
			COPd		5.67			
			Pdh	kW	8.3			
			PERd	%	226.8			
		Tbiv (bivalent temperature)	COPd		4.96			
			Pdh	kW	9.8			
			PERd	%	198.4			
			Tbiv	°C	5			
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			
			COPd		7.04			
			Pdh	kW	5.7			
			PERd	%	281.6			
		Space heating Warm climate water outlet 35°C	D Condition (12°CDB/11°CWB)	Pdh	kW		5.7	
				PERd	%		281.6	

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

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

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

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

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

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

2 Specifications

1 - 1 EPRA014-018DW

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

Technical Specifications				ETBX16D9W + EPRA14DW1	ETBX16D9W + EPRA16DW1	ETBX16D9W + EPRA18DW1	
Indoor unit				ETBX16DA9W			
Outdoor unit				EPRA14DAW1	EPRA16DAW1	EPRA18DAW1	
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				4.66 (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	Other	Capacity control		Inverter			
		Pck (Crankcase heater mode)	kW	0.000			
		Poff (Off mode)	kW	0.031			
		Psb (Standby mode)	kW	0.042			
		Pto (Thermostat off)	kW	0.033			
	Integrated supplementary heater	Psup		kW	9.0		
		Type of energy input			Electrical		
Space heating water outlet 55°C	Average climate	General	Annual energy consumption	kWh	7,122		
			s (Seasonal space heating efficiency)	%	142		
			Prated at -10°C	kW	13		
			Qhe Annual energy consumption (GCV)	Gj	26		
			SCOP		3.63		
			Seasonal space heating eff. class		A++		
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0	
				COPd		2.43	
				Pdh	kW	11.1	
				PERd	%	97.2	
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
				COPd		3.52	
				Pdh	kW	6.7	
				PERd	%	140.8	
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
COPd		4.54					

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETBX16D9W + EPRA14DW1	ETBX16D9W + EPRA16DW1	ETBX16D9W + EPRA18DW1	
Space heating	Average climate water outlet 55°C	C Condition (7°CDB/6°CWB)	Pdh	kW	6.5		
			PERd	%	181.6		
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0	
			COPd			5.97	
			Pdh	kW	5.2		
			PERd	%	238.8		
		Tol (temperature operating limit)	COPd			2.12	
			Pdh	kW	12.5		
			PERd	%	84.8		
			TOL	°C	-10		
	Rated heat output	Psup (at Tdesign -10°C)			0.0		
		Tbiv (bivalent temperature)	COPd			2.12	
	Pdh		kW	12.5			
	PERd		%	84.8			
	Tbiv		°C	-10			
	Cold climate water outlet 55°C	General	Annual energy consumption			9,589	
			s (Seasonal space heating efficiency)		%	126	
			Prated at -22°C		kW	13	
			Qhe Annual energy consumption (GCV)		Gj	35	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)			1.0	
COPd				2.74			
Pdh			kW	7.5			
PERd			%	109.6			
B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)			1.0		
		COPd			3.67		
		Pdh	kW	5.8			
		PERd	%	146.8			
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)			1.0		
		COPd			4.69		
		Pdh	kW	5.6			
		PERd	%	187.6			
D Condition (12°CDB/11°CWB)		COPd			6.12		
		Pdh	kW	6.2			
		PERd	%	244.8			
		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)			1.9			
	General	Annual energy consumption			3,926		
s (Seasonal space heating efficiency)		%	167				
Warm climate water outlet 55°C							

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETBX16D9W + EPRA14DW1	ETBX16D9W + EPRA16DW1	ETBX16D9W + EPRA18DW1
Space heating 	Warm climate water outlet 55°C	General	Prated at 2°C	kW		13
			Qhe Annual energy consumption (GCV)	Gj		14
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0
				COPd		2.62
				Pdh	kW	11.4
				PERd	%	104.8
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0
				COPd		3.65
				Pdh	kW	8.2
				PERd	%	146.0
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0
				COPd		5.37
				Pdh	kW	6.1
				PERd	%	214.8
			Tbiv (bivalent temperature)	COPd		3.18
				Pdh	kW	11.0
				PERd	%	127.2
				Tbiv	°C	4
	Water outlet 45°C (-2°C/-)	H Condition	Max.	kW	11.1	11.8
Average climate water outlet 35°C	General	A	SCOP		4.81	
			Annual energy consumption	kWh	5,366	
			s (Seasonal space heating efficiency)	%	190	
			Prated at -10°C	kW	13	
			Qhe Annual energy consumption (GCV)	Gj	19	
			Seasonal space heating eff. class		A+++	
			B Condition (2°CDB/1°CWB)	COPd	2.97	
				Pdh	kW	10.7
				PERd	%	118.8
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0
				COPd		4.94
				Pdh	kW	6.9
				PERd	%	197.6
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0
				COPd		5.95
				Pdh	kW	6.2
				PERd	%	238.0
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0
		COPd		7.07		
		Pdh	kW	5.6		
		PERd	%	282.8		
	Tol (temperature operating limit)	COPd		2.88		
		Pdh	kW	12.1		
		PERd	%	115.2		
		TOL	°C	-10		
		WTOL	°C	35		
	Tbiv (bivalent temperature)	COPd		2.97		
		Pdh	kW	10.7		
		PERd	%	118.8		
		Tbiv	°C	-7		
	Rated heat output	Psup (at Tdesign -10°C)	kW	0.4		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETBX16D9W + EPRA14DW1	ETBX16D9W + EPRA16DW1	ETBX16D9W + EPRA18DW1
Space heating Cold climate water outlet 35°C	General	Annual energy consumption	kWh		7,356	
		Seasonal space heating efficiency	%		165	
		Prated at -22°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		26	
		A Condition	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	
			WTOL	°C	35	
		G Condition (-15°CDB/-)	COPd		2.62	
			Pdh	kW	10.7	
			PERd	%	104.8	
Tbiv (bivalent temperature)	COPd		2.62			
	Pdh	kW	10.7			
	PERd	%	104.8			
	Tbiv	°C	-15			
Rated heat output	Psup (at Tdesign -22°C)	kW	2.4			
Warm climate water outlet 35°C	General	Annual energy consumption	kWh		2,855	
		Seasonal space heating efficiency	%		231	
		Prated at 2°C	kW		13	
		Qhe Annual energy consumption (GCV)	Gj		10	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0	
			COPd		3.51	
			Pdh	kW	10.0	
			PERd	%	140.4	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0	
			COPd		5.67	
			Pdh	kW	8.3	
			PERd	%	226.8	
		Tbiv (bivalent temperature)	COPd		4.96	
			Pdh	kW	9.8	
			PERd	%	198.4	
			Tbiv	°C	5	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0	
			COPd		7.04	
			Pdh	kW	5.7	
		D Condition (12°CDB/11°CWB)	PERd	%	281.6	

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

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

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

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

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

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

2 Specifications

1 - 1 EPRA014-018DW

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

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1	
Indoor unit				ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		
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				4.66 (2)		5.00 (2)				
Pump	Type				Grundfos UPMXL GEO 25-125 130 PWM					
	Nominal ESP unit	Heating		kPa	111.2 (5)		97.4 (5)			
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)			
General	Supplier/Manufacturer details	Name and address			Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
		Name or trademark			Daikin Europe N.V.					
	Product description	Air-to-water heat pump			Yes					
		Brine-to-water heat pump			No					
		Heat pump combination heater			Yes					
		Low-temperature heat pump			No					
		Supplementary heater integrated			Yes					
		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)	m³/h	3,918	-	3,918	-	3,960	-	
	Other	Capacity control			Inverter					
		Pck (Crankcase heater mode)			0.000					
		Poff (Off mode)			0.031					
		Psb (Standby mode)			0.042					
		Pto (Thermostat off)			0.033					
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	kW	6.0						
		Type of energy input			Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		wh (water heating efficiency)	%	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	°C	52.5						
		Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
	Heat up time			1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min	
	wh (water heating efficiency)		%	91						
	Qelec (Daily electricity consumption)		kWh	5.370	8.720	5.370	8.720	5.370	8.720	
	Reference hot water temperature	°C	52.5							

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1	
Domestic hot water heating	Cold climate	Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7	
		Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413
			COPdhw		2.76	2.83	2.76	2.83	2.76	2.83
			Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
			wh (water heating efficiency)	%	117	119	117	119	117	119
			Qelec (Daily electricity consumption)	kWh	4.220	6.740	4.220	6.740	4.220	6.740
			Reference hot water temperature	°C	52.5					
			Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4
	Space heating	Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236				
				ηs (Seasonal space heating efficiency)	%	140				
			Prated at -10°C	kW	13					
			Qhe Annual energy consumption (GCV)	Gj	26					
			SCOP		3.57					
			Seasonal space heating eff. class		A++					
A Condition (-7°CDB/-8°CWB)			Cd	Cdh (Degradation heating)		1.0				
				COPd		2.43				
				Pdh	kW	11.1				
				PERd	%	97.2				
B Condition (2°CDB/1°CWB)			Cd	Cdh (Degradation heating)		1.0				
				COPd		3.52				
				Pdh	kW	6.7				
				PERd	%	140.8				
C Condition (7°CDB/6°CWB)			Cd	Cdh (Degradation heating)		1.0				
				COPd		4.54				
				Pdh	kW	6.5				
				PERd	%	181.6				
D Condition (12°CDB/11°CWB)			Cd	Cdh (Degradation heating)		1.0				
				COPd		5.97				
				Pdh	kW	5.2				
				PERd	%	238.8				
Tol (temperature operating limit)			COPd			2.12				
				Pdh	kW	12.5				
				PERd	%	84.8				
				TOL	°C	-10				
Rated heat output			WTOL			55				
				Psup (at Tdesign -10°C)	kW	0.0				
				Tbiv (bivalent temperature)		2.12				
				Pdh	kW	12.5				
Cold climate water outlet 55°C	General	PERd	%	84.8						
		Tbiv	°C	-10						
		Annual energy consumption	kWh	9,658						
		ηs (Seasonal space heating efficiency)	%	125						
A Condition (-7°CDB/-8°CWB)	Cd	Prated at -22°C	kW	13						
		Qhe Annual energy consumption (GCV)	Gj	35						
		Cdh (Degradation heating)		1.0						
		COPd		2.74						
B Condition (2°CDB/1°CWB)	Cd	Pdh	kW	7.5						
		PERd	%	109.6						
		Cdh (Degradation heating)		1.0						
		COPd		3.67						

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1	
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						4,063		
		s (Seasonal space heating efficiency)						161		
		Prated at 2°C						13		
		Qhe Annual energy consumption (GCV)						15		
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)						1.0		
		COPd						2.62		
		Pdh	kW					11.4		
		PERd	%					104.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0		
		COPd						3.65		
		Pdh	kW					8.2		
		PERd	%					146.0		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0		
		COPd						5.37		
		Pdh	kW					6.1		
		PERd	%					214.8		
	Tbiv (bivalent temperature)	COPd						3.18		
		Pdh	kW					11.0		
		PERd	%					127.2		
		Tbiv	°C					4		
Water outlet 45°C	H Condition (2°C/-)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP						4.71		
		Annual energy consumption						5,479		
		s (Seasonal space heating efficiency)						186		
		Prated at -10°C						13		
		Qhe Annual energy consumption (GCV)						20		
		Seasonal space heating eff. class						A+++		
A Condition (-7°CDB/-8°CWB)	COPd						2.97			

2 Specifications


1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1		
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW					10.7		
			PERd	%					118.8		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
			COPd							4.94	
			Pdh	kW						6.9	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
			COPd							5.95	
			Pdh	kW						6.2	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
			COPd							7.07	
			Pdh	kW						5.6	
		Tol (temperature operating limit)	PERd		%					282.8	
			COPd							2.88	
			Pdh		kW					12.1	
			PERd		%					115.2	
			TOL		°C					-10	
		Tbiv (bivalent temperature)	WTOL		°C					35	
			COPd							2.97	
			Pdh		kW					10.7	
			PERd		%					118.8	
		Rated heat output	Tbiv		°C					-7	
			Psup (at Tdesign -10°C)		kW					0.4	
		Cold climate water outlet 35°C	General	Annual energy consumption		kWh					7,425
				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		
	COPd							2.62			
G Condition (+15°CDB/-)	Pdh		kW					10.7			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1	
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	2,992					
			ηs (Seasonal space heating efficiency)	%	220					
			Prated at 2°C	kW	13					
			Qhe Annual energy consumption (GCV)	Gj	11					
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0				
			COPd		3.51					
			Pdh	kW	10.0					
			PERd	%	140.4					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.67					
			Pdh	kW	8.3					
			PERd	%	226.8					
		Tbiv (bivalent temperature)	COPd		4.96					
			Pdh	kW	9.8					
		PERd	%	198.4						
	Tbiv	°C	5							
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0							
	COPd		7.04							
	Pdh	kW	5.7							
	PERd	%	281.6							

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

Technical Specifications				ETVH16S18D6V + EPRA14DW1	ETVH16S23D6V + EPRA14DW1	ETVH16S18D6V + EPRA16DW1	ETVH16S23D6V + EPRA16DW1	ETVH16S18D6V + EPRA18DW1	ETVH16S23D6V + EPRA18DW1	
Indoor unit				ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	ETVH16S18DA6V	ETVH16S23DA6V	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		
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				4.66 (2)			5.00 (2)			
Pump				Grundfos UPMXL GEO 25-125 130 PWM						
Nominal ESP unit	Heating	Nom.	kPa	111.2 (5)		97.4 (5)				
				16.3 (2)		25.8 (2)				
Water side Heat exchanger	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						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETVH16S18D6VG + EPRA14DW1	ETVH16S23D6VG + EPRA14DW1	ETVH16S18D6VG + EPRA16DW1	ETVH16S23D6VG + EPRA16DW1	ETVH16S18D6VG + EPRA18DW1	ETVH16S23D6VG + EPRA18DW1		
LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)	54.0							
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825							
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L		
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	3,918	-	3,918	-	3,960	-	
	Other	Capacity control		Inverter						
		Pck (Crankcase heater mode)	kW	0.000						
		Poff (Off mode)	kW	0.031						
		Psb (Standby mode)	kW	0.042						
	Pto (Thermostat off)	kW	0.033							
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL		
Space heating general	Integrated supplementary heater	Psup	kW	6.0						
		Type of energy input		Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572	
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		wh (water heating efficiency)	%	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	°C	52.5						
	Cold climate	Stand-by power input	Water heating energy efficiency class		A					
			AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			wh (water heating efficiency)	%	91					
			Qelec (Daily electricity consumption)	kWh	5.370	8.720	5.370	8.720	5.370	8.720
		Reference hot water temperature	°C	52.5						
Domestic hot water heating	Cold climate	Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7	
		Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876	1,413
			COPdhw		2.76	2.83	2.76	2.83	2.76	2.83
			Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
			wh (water heating efficiency)	%	117	119	117	119	117	119
			Qelec (Daily electricity consumption)	kWh	4.220	6.740	4.220	6.740	4.220	6.740
	Reference hot water temperature		°C	52.5						
Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D6VG + EPRA14DW1	ETVH16S23D6VG + EPRA14DW1	ETVH16S18D6VG + EPRA16DW1	ETVH16S23D6VG + EPRA16DW1	ETVH16S18D6VG + EPRA18DW1	ETVH16S23D6VG + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,236			
			s (Seasonal space heating efficiency) %						140			
			Prated at -10°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							26		
			SCOP							3.57		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd								2.12
					Pdh kW							12.5
					PERd %							84.8
					TOL °C							-10
					WTOL °C							55
Rated heat output Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)								0.0			
		COPd							2.12			
		Pdh kW							12.5			
		PERd %							84.8			
		Tbiv °C							-10			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,658			
		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	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D6VG + EPRA14DW1	ETVH16S23D6VG + EPRA14DW1	ETVH16S18D6VG + EPRA16DW1	ETVH16S23D6VG + EPRA16DW1	ETVH16S18D6VG + EPRA18DW1	ETVH16S23D6VG + EPRA18DW1	
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					4,063	
		s (Seasonal space heating efficiency)		%						161
		Prated at 2°C		kW						13
		Qhe Annual energy consumption (GCV)		Gj						15
		B Condition (2°CDB/1°CWB)		Cdh (Degradation heating)						1.0
	COPd								2.62	
		Pdh	kW						11.4	
		PERd	%						104.8	
		C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)						1.0
	COPd								3.65	
		Pdh	kW						8.2	
		PERd	%						146.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
		COPd							5.37	
		Pdh	kW						6.1	
PERd		%						214.8		
Tbiv (bivalent temperature)	COPd							3.18		
	Pdh	kW						11.0		
	PERd	%						127.2		
	Tbiv		°C						4	
Water outlet 45°C	H Condition (2°C/-)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP							4.71	
		Annual energy consumption		kWh						5,479
		s (Seasonal space heating efficiency)		%						186
		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							2.97		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D6VG + EPRA14DW1	ETVH16S23D6VG + EPRA14DW1	ETVH16S18D6VG + EPRA16DW1	ETVH16S23D6VG + EPRA16DW1	ETVH16S18D6VG + EPRA18DW1	ETVH16S23D6VG + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW					10.7	
			PERd	%					118.8	
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)							1.0
			COPd							4.94
			Pdh	kW						6.9
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)							1.0
			COPd							5.95
			Pdh	kW						6.2
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)							1.0
			COPd							7.07
			Pdh	kW						5.6
		Tol (temperature operating limit)	CdH (Degradation heating)							282.8
			COPd							2.88
			Pdh	kW						12.1
			PERd	%						115.2
		Tbiv (bivalent temperature)	CdH (Degradation heating)							-10
			TOL	°C						35
			WTOL	°C						2.97
			COPd							10.7
		Rated heat output	CdH (Degradation heating)							118.8
			Pdh	kW						-7
			PERd	%						0.4
			Tbiv	°C						
		Cold climate water outlet 35°C	General	Psup (at Tdesign -10°C)		kW				
Annual energy consumption				kWh					7,425	
s (Seasonal space heating efficiency)				%						163
Prated at -22°C				kW						13
A Condition (-7°CDB/-8°CWB)	Qhe Annual energy consumption (GCV)		Gj						27	
	COPd								3.50	
	Pdh		kW							8.0
	PERd		%							140.0
B Condition (2°CDB/1°CWB)	CdH (Degradation heating)								1.0	
	COPd									5.07
	Pdh		kW							4.9
	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)	CdH (Degradation heating)								2.16	
	COPd									10.1
	Pdh		kW							86.4
	PERd		%							-22
G Condition (+15°CDB/-)	CdH (Degradation heating)								35	
	TOL	°C							2.62	
	WTOL	°C							10.7	
	COPd									

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D6VG + EPRA14DW1	ETVH16S23D6VG + EPRA14DW1	ETVH16S18D6VG + EPRA16DW1	ETVH16S23D6VG + EPRA16DW1	ETVH16S18D6VG + EPRA18DW1	ETVH16S23D6VG + EPRA18DW1		
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						2,992
				ηs (Seasonal space heating efficiency)	%						220
				Prated at 2°C	kW						13
				Qhe Annual energy consumption (GCV)	Gj						11
	B Condition (2°CDB/1°CWB)			Cdh (Degradation heating)							1.0
			COPd							3.51	
			Pdh	kW						10.0	
			PERd	%						140.4	
	C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)							1.0	
			COPd							5.67	
		Pdh	kW						8.3		
		PERd	%						226.8		
		Tbiv (bivalent temperature)	COPd							4.96	
			Pdh	kW						9.8	
		PERd	%						198.4		
		Tbiv	°C						5		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0		
		COPd							7.04		
		Pdh	kW						5.7		
		PERd	%						281.6		

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

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1
Indoor unit				ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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			4.66 (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.	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				

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1	
LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)	54.0						
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control	Inverter						
		Pck (Crankcase heater mode) kW	0.000						
		Poff (Off mode) kW	0.031						
		Psb (Standby mode) kW	0.042						
		Pto (Thermostat off) kW	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup kW	9.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption) kWh	969	1,572	969	1,572	969	1,572	
		COPdhw	2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time wh (water heating efficiency) %	1h 06min 106	1h 19min 107	1h 06min 106	1h 19min 107	1h 06min 106	1h 19min 107	
		Qelec (Daily electricity consumption) kWh	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature °C	52.5						
		Stand-by power input W	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class	A						
		Cold climate	AEC (Annual electricity consumption) kWh	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw	2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time wh (water heating efficiency) %	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			Qelec (Daily electricity consumption) kWh	5.370	8.720	5.370	8.720	5.370	8.720
			Reference hot water temperature °C	52.5					
			Stand-by power input W	45.0	63.7	45.0	63.7	45.0	63.7
			AEC (Annual electricity consumption) kWh	876	1,413	876	1,413	876	1,413
		Domestic hot water heating	Warm climate	COPdhw	2.76	2.83	2.76	2.83	2.76
Heat up time wh (water heating efficiency) %	1h 15min 117			1h 30min 119	1h 15min 117	1h 30min 119	1h 15min 117	1h 30min 119	
Qelec (Daily electricity consumption) kWh	4.220			6.740	4.220	6.740	4.220	6.740	
Reference hot water temperature °C	52.5								
Stand-by power input W	41.6			55.4	41.6	55.4	41.6	55.4	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh	7,236							
		s (Seasonal space heating efficiency)	%	140							
		Prated at -10°C	kW	13							
		Qhe Annual energy consumption (GCV)	Gj	26							
		SCOP		3.57							
		Seasonal space heating eff. class		A++							
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)			1.0					
				COPd		2.43					
				Pdh	kW	11.1					
				PERd	%	97.2					
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)			1.0					
				COPd		3.52					
				Pdh	kW	6.7					
				PERd	%	140.8					
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)			1.0					
				COPd		4.54					
				Pdh	kW	6.5					
				PERd	%	181.6					
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)			1.0					
				COPd		5.97					
				Pdh	kW	5.2					
				PERd	%	238.8					
		Tol (temperature operating limit)	COPd			2.12					
				Pdh	kW	12.5					
				PERd	%	84.8					
				TOL	°C	-10					
		Rated heat output	WTOL			55					
Psup (at Tdesign -10°C)	kW			0.0							
Tbiv (bivalent temperature)				2.12							
COPd				2.12							
Cold climate water outlet 55°C	General	Pdh	kW	12.5							
		PERd	%	84.8							
		Tbiv	°C	-10							
		Annual energy consumption	kWh	9,658							
	A Condition (-7°CDB/-8°CWB)	s (Seasonal space heating efficiency)			125						
			Prated at -22°C	kW	13						
			Qhe Annual energy consumption (GCV)	Gj	35						
			CdH (Degradation heating)		1.0						
	B Condition (2°CDB/1°CWB)	COPd			2.74						
			Pdh	kW	7.5						
			PERd	%	109.6						
			CdH (Degradation heating)		1.0						
	COPd			3.67							
		Pdh	kW	5.8							

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	PERd	%					146.8
			Cdh (Degradation heating)						1.0
		C Condition (7°CDB/6°CWB)	COPd			4.69			
			Pdh	kW		5.6			
			PERd	%		187.6			
			D Condition (12°CDB/11°CWB)		COPd		6.12		
		D Condition (12°CDB/11°CWB)	Pdh	kW		6.2			
			PERd	%		244.8			
			Tol (temperature operating limit)		COPd		1.65		
		Tol (temperature operating limit)	Pdh	kW		10.6			
	PERd		%		66.0				
	TOL		°C		-22				
	G Condition (-15°CDB/-)	WTOL	°C		55				
		G		COPd		2.17			
	Condition (-15°CDB/-)	Pdh	kW		10.3				
		PERd	%		86.8				
	Tbiv (bivalent temperature)	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		4,063			
		ηs (Seasonal space heating efficiency)	%		161				
		Prated at 2°C	kW		13				
		Qhe Annual energy consumption (GCV)	Gj		15				
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)			1.0				
		COPd			2.62				
		Pdh	kW		11.4				
		PERd	%		104.8				
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)			1.0				
		COPd			3.65				
Pdh		kW		8.2					
PERd		%		146.0					
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)			1.0					
	COPd			5.37					
	Pdh	kW		6.1					
	PERd	%		214.8					
Tbiv (bivalent temperature)	Tbiv (bivalent temperature)		COPd		3.18				
	Pdh	kW		11.0					
	PERd	%		127.2					
	Tbiv	°C		4					
Water outlet 45°C	H Condition (-2°C / -)	Max.	kW		11.1			11.8	
Average climate water outlet 35°C	General	SCOP				4.71			
		Annual energy consumption		kWh		5,479			
		ηs (Seasonal space heating efficiency)	%		186				
		Prated at -10°C	kW		13				
		Qhe Annual energy consumption (GCV)	Gj		20				
		Seasonal space heating eff. class			A+++				
	A Condition (-7°CDB/-8°CWB)	A Condition (-7°CDB/-8°CWB)		COPd		2.97			
Pdh	kW		10.7						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1	
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%					118.8	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.94
			Pdh	kW						6.9
			PERd	%						197.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.95
			Pdh	kW						6.2
			PERd	%						238.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.07
			Pdh	kW						5.6
			PERd	%						282.8
		Tol (temperature operating limit)	COPd							2.88
			Pdh	kW						12.1
			PERd	%						115.2
			TOL	°C						-10
			WTOL	°C						35
		Tbiv (bivalent temperature)	COPd							2.97
			Pdh	kW						10.7
			PERd	%						118.8
			Tbiv	°C						-7
		Rated heat output	Psup (at Tdesign -10°C)	kW						0.4
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh					
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		
	PERd	%						104.8		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1	
Space heating 	Cold climate water outlet 35°C	Tbiv (bivalent temperature)	COPd						2.62	
			Pdh	kW					10.7	
			PERd	%						104.8
		Rated heat output	Tbiv	°C						-15
			Psup (at Tdesign -22°C)	kW						2.4
			Annual energy consumption	kWh						2,992
	Warm climate water outlet 35°C	General	s (Seasonal space heating efficiency)	PERd at 2°C	%					220
				Prated at 2°C	kW					13
				Qhe Annual energy consumption (GCV)	Gj					
		B Condition (2°CDB/1°CWB)	Cd (Degradation heating)	COPd						1.0
				Pdh	kW					3.51
				PERd	%					10.0
	C Condition (7°CDB/6°CWB)	Cd (Degradation heating)	COPd						1.0	
			Pdh	kW					5.67	
			PERd	%					8.3	
	Tbiv (bivalent temperature)	Cd (Degradation heating)	COPd						226.8	
			Pdh	kW					4.96	
			PERd	%					9.8	
	D Condition (12°CDB/11°CWB)	Cd (Degradation heating)	Tbiv	°C					198.4	
			COPd						5	
			Pdh	kW					1.0	
				COPd					7.04	
				Pdh	kW					5.7
				PERd	%					281.6

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

Technical Specifications				ETVH16S18D9W + EPRA14DW1	ETVH16S23D9W + EPRA14DW1	ETVH16S18D9W + EPRA16DW1	ETVH16S23D9W + EPRA16DW1	ETVH16S18D9W + EPRA18DW1	ETVH16S23D9W + EPRA18DW1
Indoor unit				ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W	ETVH16S18DA9W	ETVH16S23DA9W
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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				4.66 (2)		5.00 (2)			
Pump				Grundfos UPMXL GEO 25-125 130 PWM					
Type	Nominal ESP unit	Heating	kPa	111.2 (5)		97.4 (5)			
				16.3 (2)		25.8 (2)			
Water side Heat exchanger				16.3 (2)		25.8 (2)			
General				Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium					
Supplier/Manufacturer details				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		44.0			
Outdoor				54.0					
(according to EN14825)									

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETVH16S18D9WG + EPRA14DW1	ETVH16S23D9WG + EPRA14DW1	ETVH16S18D9WG + EPRA16DW1	ETVH16S23D9WG + EPRA16DW1	ETVH16S18D9WG + EPRA18DW1	ETVH16S23D9WG + EPRA18DW1
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825					
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Other	Capacity control	Inverter					
		Pck (Crankcase heater mode) kW	0.000					
		Poff (Off mode) kW	0.031					
		Psb (Standby mode) kW	0.042					
		Pto (Thermostat off) kW	0.033					
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL
Space heating general	Integrated supplementary heater	Psup kW	9.0					
		Type of energy input	Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption) kWh	969	1,572	969	1,572	969	1,572
		COPdhw	2.51	2.55	2.51	2.55	2.51	2.55
		Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min
		wh (water heating efficiency) %	106	107	106	107	106	107
		Qelec (Daily electricity consumption) kWh	4.650	7.480	4.650	7.480	4.650	7.480
		Reference hot water temperature °C	52.5					
		Stand-by power input W	42.9	58.5	42.9	58.5	42.9	58.5
	Cold climate	AEC (Annual electricity consumption) kWh	1,124	1,839	1,124	1,839	1,124	1,839
		COPdhw	2.17	2.19	2.17	2.19	2.17	2.19
		Heat up time	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
		wh (water heating efficiency) %	91					
		Qelec (Daily electricity consumption) kWh	5.370	8.720	5.370	8.720	5.370	8.720
		Reference hot water temperature °C	52.5					
		Stand-by power input W	45.0	63.7	45.0	63.7	45.0	63.7
		Domestic hot water heating	Warm climate	AEC (Annual electricity consumption) kWh	876	1,413	876	1,413
COPdhw	2.76			2.83	2.76	2.83	2.76	2.83
Heat up time	1h 15min			1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
wh (water heating efficiency) %	117			119	117	119	117	119
Qelec (Daily electricity consumption) kWh	4.220			6.740	4.220	6.740	4.220	6.740
Reference hot water temperature °C	52.5							
Stand-by power input W	41.6			55.4	41.6	55.4	41.6	55.4

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D9WG + EPRA14DW1	ETVH16S23D9WG + EPRA14DW1	ETVH16S18D9WG + EPRA16DW1	ETVH16S23D9WG + EPRA16DW1	ETVH16S18D9WG + EPRA18DW1	ETVH16S23D9WG + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,236			
			s (Seasonal space heating efficiency) %							140		
			Prated at -10°C kW								13	
			Qhe Annual energy consumption (GCV) GJ								26	
			SCOP								3.57	
			Seasonal space heating eff. class								A++	
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating) COPd								1.0
					Pdh kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating) COPd								1.0
					Pdh kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating) COPd								1.0
					Pdh kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating) COPd								1.0
					Pdh kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd Pdh kW PERd % TOL °C WTOL °C								2.12
												12.5
												84.8
												-10
			Rated heat output Tbiv (bivalent temperature)	Psup (at Tdesign -10°C) COPd Pdh kW PERd % Tbiv °C								0.0
									2.12			
									12.5			
									84.8			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,658			
		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	
				Pdh kW							5.8	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D9WG + EPRA14DW1	ETVH16S23D9WG + EPRA14DW1	ETVH16S18D9WG + EPRA16DW1	ETVH16S23D9WG + EPRA16DW1	ETVH16S18D9WG + EPRA18DW1	ETVH16S23D9WG + EPRA18DW1	
Space heating	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	PERd	%						146.8
			Cdh (Degradation heating)							1.0
		C Condition (7°CDB/6°CWB)	COPd							4.69
			Pdh	kW						5.6
			PERd	%						187.6
			D Condition (12°CDB/11°CWB)	COPd						
		Pdh	kW						6.2	
			PERd	%						244.8
			Tol (temperature operating limit)	COPd						
		Pdh	kW						10.6	
	PERd		%						66.0	
	TOL		°C						-22	
	WTOL	°C						55		
		G	COPd							2.17
	Condition (-15°CDB/-)	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						4,063	
		ηs (Seasonal space heating efficiency)	%						161	
		Prated at 2°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						15	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
	COPd								2.62	
	Pdh		kW						11.4	
	PERd		%						104.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
		COPd							3.65	
		Pdh	kW						8.2	
		PERd	%						146.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
		COPd							5.37	
		Pdh	kW						6.1	
		PERd	%						214.8	
	Tbiv (bivalent temperature)	COPd							3.18	
		Pdh	kW						11.0	
		PERd	%						127.2	
		Tbiv	°C						4	
Water outlet 45°C	H Condition (-2°C / -)	Max.	kW	11.1				11.8		
		Average climate water outlet 35°C	General	SCOP						
Annual energy consumption	kWh								5,479	
ηs (Seasonal space heating efficiency)	%								186	
Prated at -10°C	kW								13	
Qhe Annual energy consumption (GCV)	Gj								20	
Seasonal space heating eff. class									A+++	
A Condition (-7°CDB/-8°CWB)	COPd							2.97		
	Pdh	kW						10.7		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVH16S18D9WG + EPRA14DW1	ETVH16S23D9WG + EPRA14DW1	ETVH16S18D9WG + EPRA16DW1	ETVH16S23D9WG + EPRA16DW1	ETVH16S18D9WG + EPRA18DW1	ETVH16S23D9WG + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	PERd	%					118.8	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.94
			Pdh		kW					6.9
			PERd		%					197.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.95
			Pdh		kW					6.2
			PERd		%					238.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.07
			Pdh		kW					5.6
			PERd		%					282.8
		Tol (temperature operating limit)	COPd							2.88
			Pdh		kW					12.1
			PERd		%					115.2
			TOL		°C					-10
			WTOL		°C					35
		Tbiv (bivalent temperature)	COPd							2.97
			Pdh		kW					10.7
			PERd		%					118.8
			Tbiv		°C					-7
		Rated heat output	Psup (at Tdesign -10°C)		kW					0.4
		Cold climate water outlet 35°C	General	Annual energy consumption		kWh				
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	
	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	
	Cdh (Degradation heating)								1.0	
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		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVH16S18D9WG + EPRA14DW1	ETVH16S23D9WG + EPRA14DW1	ETVH16S18D9WG + EPRA16DW1	ETVH16S23D9WG + EPRA16DW1	ETVH16S18D9WG + EPRA18DW1	ETVH16S23D9WG + EPRA18DW1				
Space heating	Cold climate water outlet 35°C	Tbiv (bivalent temperature)	COPd							2.62			
			Pdh	kW							10.7		
			PERd	%							104.8		
			Tbiv	°C							-15		
	Warm climate water outlet 35°C	Rated heat output	General	Psup (at Tdesign -22°C)	kW							2.4	
				Annual energy consumption	kWh							2,992	
				s (Seasonal space heating efficiency)	%							220	
				Prated at 2°C	kW							13	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	General	Qhe Annual energy consumption (GCV)	Gj							11
					COPd							1.0	
					Pdh	kW							3.51
					PERd	%							10.0
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	General	COPd							5.67	
					Pdh	kW							8.3
					PERd	%							226.8
					Tbiv (bivalent temperature)	°C							5
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	General	COPd							4.96		
				Pdh	kW							9.8	
				PERd	%							198.4	
				PERd	%							281.6	

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

Technical Specifications				ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1
Indoor unit				ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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)	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				4.66 (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)		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1
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	dB(A)	44.0				
Outdoor		dB(A)	54.0					
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					
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L
Space heating general	Other	Capacity control	Inverter					
		Pck (Crankcase heater mode) kW	0.000					
		Poff (Off mode) kW	0.031					
		Psb (Standby mode) kW	0.042					
		Pto (Thermostat off) kW	0.033					
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL
Space heating general	Integrated supplementary heater	Psup kW	6.0					
		Type of energy input	Electrical					
Domestic hot water heating	Average climate	AEC (Annual electricity consumption) kWh	969	1,572	969	1,572	969	1,572
		COPdhw	2.51	2.55	2.51	2.55	2.51	2.55
		Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min
		wh (water heating efficiency) %	106	107	106	107	106	107
		Qelec (Daily electricity consumption) kWh	4.650	7.480	4.650	7.480	4.650	7.480
		Reference hot water temperature °C	52.5					
		Stand-by power input W	42.9	58.5	42.9	58.5	42.9	58.5
	Cold climate	AEC (Annual electricity consumption) kWh	1,124	1,839	1,124	1,839	1,124	1,839
		COPdhw	2.17	2.19	2.17	2.19	2.17	2.19
		Heat up time	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
		wh (water heating efficiency) %	91					
		Qelec (Daily electricity consumption) kWh	5.370	8.720	5.370	8.720	5.370	8.720
		Reference hot water temperature °C	52.5					
		Stand-by power input W	45.0	63.7	45.0	63.7	45.0	63.7
Domestic hot water heating	Warm climate	AEC (Annual electricity consumption) kWh	876	1,413	876	1,413	876	1,413
		COPdhw	2.76	2.83	2.76	2.83	2.76	2.83
		Heat up time	1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
		wh (water heating efficiency) %	117	119	117	119	117	119
	Cold climate	Qelec (Daily electricity consumption) kWh	4.220	6.740	4.220	6.740	4.220	6.740
		Reference hot water temperature °C	52.5					
		Stand-by power input W	41.6	55.4	41.6	55.4	41.6	55.4

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,122		
		s (Seasonal space heating efficiency)	%						142		
		Prated at -10°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							26	
		SCOP								3.63	
		Seasonal space heating eff. class								A++	
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						2.43
				PERd	%						11.1
											97.2
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						3.52
				PERd	%						6.7
											140.8
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						4.54
				PERd	%						6.5
											181.6
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						5.97
				PERd	%						5.2
											238.8
		Tol (temperature operating limit)	COPd								2.12
				PdH	kW						12.5
PERd	%								84.8		
TOL	°C								-10		
Rated heat output	WTOL								55		
		Psup (at Tdesign -10°C)	kW						0.0		
		COPd							2.12		
		PdH	kW						12.5		
Tbiv (bivalent temperature)	PERd								84.8		
		Tbiv	°C						-10		
		Annual energy consumption	kWh						9,589		
		s (Seasonal space heating efficiency)	%						126		
Cold climate water outlet 55°C	General	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

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
			COPd	3.67					
			Pdh kW	5.8					
		PERd %	146.8						
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0					
			COPd	4.69					
			Pdh kW	5.6					
		D Condition (12°CDB/11°CWB)	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						
	Tbiv (bivalent temperature)	Pdh kW	10.3						
		PERd %	86.8						
		COPd	1.90						
	Rated heat output	Pdh kW	11.0						
		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			3,926						
s (Seasonal space heating efficiency) %			167						
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	2.62						
C Condition (7°CDB/6°CWB)		Pdh kW	11.4						
		PERd %	104.8						
		Cdh (Degradation heating)	1.0						
D Condition (12°CDB/11°CWB)		COPd	3.65						
		Pdh kW	8.2						
	PERd %	146.0							
Tbiv (bivalent temperature)	Cdh (Degradation heating)	1.0							
	COPd	5.37							
	Pdh kW	6.1							
Water outlet 45°C	PERd %	214.8							
	COPd	3.18							
	Pdh kW	11.0							
Average climate water outlet 35°C	General	PERd %	127.2						
		Tbiv °C	4						
		H Condition (2°C / -)	Max. kW	11.1		11.8			
		SCOP	4.81						
		Annual energy consumption kWh	5,366						
		s (Seasonal space heating efficiency) %	190						
Prated at -10°C kW	13								
	Qhe Annual energy consumption (GCV) GJ	19							

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1
Space heating	Average climate water outlet 35°C	General	Seasonal space heating eff. class						A+++
		A	COPd						2.97
		Condition (-7°CDB/-8°CWB)	Pdh kW						10.7
			PERd %						118.8
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)						1.0
			COPd						4.94
			Pdh kW						6.9
			PERd %						197.6
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0
			COPd						5.95
			Pdh kW						6.2
			PERd %						238.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0
			COPd						7.07
			Pdh kW						5.6
			PERd %						282.8
		Tol (temperature operating limit)	COPd						2.88
			Pdh kW						12.1
			PERd %						115.2
			TOL °C						-10
			WTOL °C						35
		Tbiv (bivalent temperature)	COPd						2.97
			Pdh kW						10.7
			PERd %						118.8
			Tbiv °C						-7
		Rated heat output	Psup (at Tdesign -10°C) kW						0.4
	Cold climate water outlet 35°C	General	Annual energy consumption kWh						7,356
			ηs (Seasonal space heating efficiency) %						165
			Prated at -22°C kW						13
			Qhe Annual energy consumption (GCV) GJ						26
		A	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
			WTOL °C						35

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D6V + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1			
Space heating 	Cold climate water outlet 35°C	G	COPd						2.62			
			Condition	Pdh	kW					10.7		
			(-15°CDB/-)	PERd	%						104.8	
			Tbiv (bivalent temperature)	COPd							2.62	
				Pdh	kW						10.7	
				PERd	%						104.8	
	Warm climate water outlet 35°C	General	Tbiv	°C						-15		
			Rated heat output	Psup (at Tdesign -22°C)	kW						2.4	
			Annual energy consumption		kWh							2,855
				s (Seasonal space heating efficiency)	%							231
				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						3.51		
			PERd	%							10.0	
											140.4	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd							1.0		
			Pdh	kW						5.67		
			PERd	%							8.3	
											226.8	
	Tbiv (bivalent temperature)	COPd								4.96		
			Pdh	kW							9.8	
			PERd	%							198.4	
			Tbiv	°C							5	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd							1.0			
		Pdh	kW							7.04		
		PERd	%							5.7		
										281.6		

- (1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
 (2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (dT = 5°C) |
 (3)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 + EPRA14DW1	ETVX16S23D6V + EPRA14DW1	ETVX16S18D6V + EPRA16DW1	ETVX16S23D6V + EPRA16DW1	ETVX16S18D6V + EPRA18DW1	ETVX16S23D6V + EPRA18DW1
Indoor unit				ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V	ETVX16S18DA6V	ETVX16S23DA6V
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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)	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				4.66 (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)		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETVX16S18D6VG + EPRA14DW1	ETVX16S23D6VG + EPRA14DW1	ETVX16S18D6VG + EPRA16DW1	ETVX16S23D6VG + EPRA16DW1	ETVX16S18D6VG + EPRA18DW1	ETVX16S23D6VG + EPRA18DW1	
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					
LW(A) Sound power level	Indoor	dB(A)	44.0						
LW(A) Sound power level (according to EN14825)	Outdoor	dB(A)	54.0						
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825						
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control	Inverter						
		Pck (Crankcase heater mode)	kW	0.000					
		Poff (Off mode)	kW	0.031					
		Psb (Standby mode)	kW	0.042					
	Pto (Thermostat off)	kW	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	kW						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min
		wh (water heating efficiency)	%	106	107	106	107	106	107
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480
		Reference hot water temperature	°C	52.5					
	Cold climate	Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5
		Water heating energy efficiency class		A					
		AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
		COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
		Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
		wh (water heating efficiency)	%	91					
		Qelec (Daily electricity consumption)	kWh	5.370	8.720	5.370	8.720	5.370	8.720
Domestic hot water heating	Cold climate	Reference hot water temperature	°C	52.5					
		Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7
		Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876
	COPdhw			2.76	2.83	2.76	2.83	2.76	2.83
	Heat up time			1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
	wh (water heating efficiency)		%	117	119	117	119	117	119
	Qelec (Daily electricity consumption)		kWh	4.220	6.740	4.220	6.740	4.220	6.740
	Reference hot water temperature	°C	52.5						
Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D6VG + EPRA14DW1	ETVX16S23D6VG + EPRA14DW1	ETVX16S18D6VG + EPRA16DW1	ETVX16S23D6VG + EPRA16DW1	ETVX16S18D6VG + EPRA18DW1	ETVX16S23D6VG + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,122			
			s (Seasonal space heating efficiency) %						142			
			Prated at -10°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							26		
			SCOP							3.63		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd								2.12
					PdH kW							12.5
					PERd %							84.8
					TOL °C							-10
Rated heat output	WTOL °C								55			
		Psup (at Tdesign -10°C) kW							0.0			
		COPd							2.12			
		PdH kW							12.5			
Tbiv (bivalent temperature)	PERd %								84.8			
		Tbiv °C							-10			
		Annual energy consumption kWh							9,589			
		s (Seasonal space heating efficiency) %							126			
Cold climate water outlet 55°C	General	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	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D6VG + EPRA14DW1	ETVX16S23D6VG + EPRA14DW1	ETVX16S18D6VG + EPRA16DW1	ETVX16S23D6VG + EPRA16DW1	ETVX16S18D6VG + EPRA18DW1	ETVX16S23D6VG + EPRA18DW1	
Space heating Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
		COPd							3.67	
		Pdh	kW						5.8	
		PERd	%						146.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.69
			Pdh	kW						5.6
		D Condition (12°CDB/11°CWB)	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	
	Tbiv (bivalent temperature)	Pdh	kW						10.3	
		PERd	%						86.8	
		COPd							1.90	
Rated heat output	Pdh	kW						11.0		
	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						3,926	
		s (Seasonal space heating efficiency)	%						167	
		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							2.62	
		Pdh	kW						11.4	
		PERd	%						104.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
COPd								3.65		
Pdh	kW							8.2		
D Condition (12°CDB/11°CWB)	PERd	%						146.0		
	Cdh (Degradation heating)							1.0		
	COPd							5.37		
Tbiv (bivalent temperature)	Pdh	kW						6.1		
	PERd	%						214.8		
	COPd							3.18		
	Pdh	kW						11.0		
Water outlet 45°C	H Condition (2°C / -)	PERd	%					127.2		
		Tbiv	°C					4		
Average climate water outlet 35°C	General	Max.	kW	11.1			11.8			
		SCOP							4.81	
		Annual energy consumption	kWh						5,366	
		s (Seasonal space heating efficiency)	%						190	
		Prated at -10°C	kW						13	
Qhe Annual energy consumption (GCV)	Gj						19			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D6VG + EPRA14DW1	ETVX16S23D6VG + EPRA14DW1	ETVX16S18D6VG + EPRA16DW1	ETVX16S23D6VG + EPRA16DW1	ETVX16S18D6VG + EPRA18DW1	ETVX16S23D6VG + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++						
		A	COPd	2.97						
		B Condition (-7°CDB/-8°CWB)	Pdh	kW	10.7					
			PERd	%	118.8					
			Cdh (Degradation heating)	1.0						
		B Condition (2°CDB/1°CWB)	COPd	4.94						
			Pdh	kW	6.9					
			PERd	%	197.6					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0						
			COPd	5.95						
			Pdh	kW	6.2					
		D Condition (12°CDB/11°CWB)	PERd	%	238.0					
			Cdh (Degradation heating)	1.0						
			COPd	7.07						
		Tol (temperature operating limit)	Pdh	kW	5.6					
			PERd	%	282.8					
			TOL	°C	-10					
		Tbiv (bivalent temperature)	WTOL	°C	35					
			COPd	2.97						
			Pdh	kW	10.7					
		Rated heat output	PERd	%	118.8					
			Tbiv	°C	-7					
			Psup (at Tdesign -10°C)	kW	0.4					
		Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,356				
	ηs (Seasonal space heating efficiency)		%	165						
	Prated at -22°C		kW	13						
	Qhe Annual energy consumption (GCV)		Gj	26						
A	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						
B Condition (2°CDB/1°CWB)	PERd		%	202.8						
	Cdh (Degradation heating)		1.0							
	COPd		6.10							
C Condition (7°CDB/6°CWB)	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						
Tol (temperature operating limit)	COPd		2.16							
	Pdh		kW	10.1						
	PERd		%	86.4						
	TOL		°C	-22						
	WTOL		°C	35						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D6VG + EPRA14DW1	ETVX16S23D6VG + EPRA14DW1	ETVX16S18D6VG + EPRA16DW1	ETVX16S23D6VG + EPRA16DW1	ETVX16S18D6VG + EPRA18DW1	ETVX16S23D6VG + EPRA18DW1		
Space heating	Cold climate water outlet 35°C	G	COPd						2.62		
			Condition	Pdh	kW					10.7	
		Tbiv (bivalent temperature)	(-15°CDB/-)	PERd	%						104.8
				COPd							2.62
		Rated heat output	Pdh	kWh							10.7
					PERd	%					
		Warm climate water outlet 35°C	Tbiv	°C							-15
					Psup (at Tdesign -22°C)	kW					
		General	Annual energy consumption	kWh							2,855
					s (Seasonal space heating efficiency)	%					
	Prated at 2°C	Qhe Annual energy consumption (GCV)	Gj							13	
											10
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd							1.0	
				Pdh	kW						3.51
				PERd	%						10.0
											140.4
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd							1.0	
				Pdh	kW						5.67
				PERd	%						8.3
											226.8
Tbiv (bivalent temperature)	COPd	kWh							4.96		
			Pdh	kW						9.8	
			PERd	%						198.4	
			Tbiv	°C						5	
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd							1.0		
			Pdh	kW						7.04	
			PERd	%						5.7	
										281.6	

(1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
 (2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (dT = 5°C) |
 (3)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 + EPRA14DAW1	ETVX16S23D9W + EPRA14DAW1	ETVX16S18D9W + EPRA16DAW1	ETVX16S23D9W + EPRA16DAW1	ETVX16S18D9W + EPRA18DAW1	ETVX16S23D9W + EPRA18DAW1
Indoor unit				ETVX16S18DA9W		ETVX16S23DA9W		ETVX16S18DA9W	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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				4.66 (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)		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETVX16S18D9W + EPRA14DW1	ETVX16S23D9W + EPRA14DW1	ETVX16S18D9W + EPRA16DW1	ETVX16S23D9W + EPRA16DW1	ETVX16S18D9W + EPRA18DW1	ETVX16S23D9W + EPRA18DW1	
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	Other	Capacity control	Inverter						
		Pck (Crankcase heater mode)	0.000						
		Poff (Off mode)	0.031						
		Psb (Standby mode)	0.042						
		Pto (Thermostat off)	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	9.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	969	1,572	969	1,572	969	1,572	
		COPdhw	2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		wh (water heating efficiency)	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	52.5						
		Stand-by power input	42.9	58.5	42.9	58.5	42.9	58.5	
	Cold climate	Cold climate	Water heating energy efficiency class	A					
			AEC (Annual electricity consumption)	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw	2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			wh (water heating efficiency)	91					
			Qelec (Daily electricity consumption)	5.370	8.720	5.370	8.720	5.370	8.720
			Reference hot water temperature	52.5					
Domestic hot water heating	Warm climate	Stand-by power input	45.0	63.7	45.0	63.7	45.0	63.7	
		Warm climate	AEC (Annual electricity consumption)	876	1,413	876	1,413	876	1,413
			COPdhw	2.76	2.83	2.76	2.83	2.76	2.83
			Heat up time	1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
	wh (water heating efficiency)		117	119	117	119	117	119	
	Warm climate	Warm climate	Qelec (Daily electricity consumption)	4.220	6.740	4.220	6.740	4.220	6.740
			Reference hot water temperature	52.5					
			Stand-by power input	41.6	55.4	41.6	55.4	41.6	55.4

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D9W + EPRA14DW1	ETVX16S23D9W + EPRA14DW1	ETVX16S18D9W + EPRA16DW1	ETVX16S23D9W + EPRA16DW1	ETVX16S18D9W + EPRA18DW1	ETVX16S23D9W + EPRA18DW1		
Space heating Average climate water outlet 55°C	General	Annual energy consumption	kWh						7,122		
		s (Seasonal space heating efficiency)	%						142		
		Prated at -10°C	kW							13	
		Qhe Annual energy consumption (GCV)	Gj							26	
		SCOP								3.63	
		Seasonal space heating eff. class								A++	
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						2.43
				PERd	%						11.1
											97.2
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						3.52
				PERd	%						6.7
											140.8
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						4.54
				PERd	%						6.5
											181.6
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						5.97
				PERd	%						5.2
											238.8
		Tol (temperature operating limit)	COPd								2.12
PdH	kW								12.5		
PERd	%								84.8		
TOL	°C								-10		
WTOL	°C								55		
Rated heat output Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)		kW						0.0		
		COPd							2.12		
		PdH	kW						12.5		
		PERd	%						84.8		
Cold climate water outlet 55°C	General	Annual energy consumption	kWh						9,589		
				s (Seasonal space heating efficiency)	%					126	
		Prated at -22°C	kW						13		
		Qhe Annual energy consumption (GCV)	Gj						35		
		A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
				PdH	kW						2.74
				PERd	%						7.5
											109.6

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D9W + EPRA14DW1	ETVX16S23D9W + EPRA14DW1	ETVX16S18D9W + EPRA16DW1	ETVX16S23D9W + EPRA16DW1	ETVX16S18D9W + EPRA18DW1	ETVX16S23D9W + EPRA18DW1
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
			COPd	3.67					
			Pdh kW	5.8					
			PERd %	146.8					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0					
			COPd	4.69					
			Pdh kW	5.6					
			PERd %	187.6					
		D Condition (12°CDB/11°CWB)	COPd	6.12					
			Pdh kW	6.2					
			PERd %	244.8					
			Tol (temperature operating limit)	COPd	1.65				
	Pdh kW	10.6							
	PERd %	66.0							
	TOL °C	-22							
	WTOL °C	55							
	G Condition (-15°CDB/-)	COPd	2.17						
		Pdh kW	10.3						
		PERd %	86.8						
	Tbiv (bivalent temperature)	COPd	1.90						
		Pdh kW	11.0						
		PERd %	76.0						
		Tbiv °C	-18						
	Rated heat output	Psup (at Tdesign -22°C)	1.9						
Warm climate water outlet 55°C	General	Annual energy consumption	3,926						
		s (Seasonal space heating efficiency) %	167						
		Prated at 2°C kW	13						
		Qhe Annual energy consumption (GCV) GJ	14						
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0						
		COPd	2.62						
		Pdh kW	11.4						
		PERd %	104.8						
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0						
		COPd	3.65						
		Pdh kW	8.2						
		PERd %	146.0						
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0						
		COPd	5.37						
		Pdh kW	6.1						
		PERd %	214.8						
	Tbiv (bivalent temperature)	COPd	3.18						
		Pdh kW	11.0						
PERd %		127.2							
Tbiv °C		4							
Water outlet 45°C	H Condition (2°C / -)	Max.	kW		11.1	11.8			
Average climate water outlet 35°C	General	SCOP	4.81						
		Annual energy consumption	5,366						
		s (Seasonal space heating efficiency) %	190						
		Prated at -10°C kW	13						
		Qhe Annual energy consumption (GCV) GJ	19						

2 Specifications


1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D9W + EPRA14DW1	ETVX16S23D9W + EPRA14DW1	ETVX16S18D9W + EPRA16DW1	ETVX16S23D9W + EPRA16DW1	ETVX16S18D9W + EPRA18DW1	ETVX16S23D9W + EPRA18DW1
Space heating Average climate water outlet 35°C	General	Seasonal space heating eff. class							A+++
		A COPd							2.97
		Condition Pdh	kW						10.7
		(-7°CDB/-8°CWB) PERd	%						118.8
		B Condition Cdh (Degradation heating)							1.0
		(2°CDB/1°CWB) COPd							4.94
		Pdh	kW						6.9
		PERd	%						197.6
		C Condition Cdh (Degradation heating)							1.0
		(7°CDB/6°CWB) COPd							5.95
		Pdh	kW						6.2
		PERd	%						238.0
		D Condition Cdh (Degradation heating)							1.0
		(12°CDB/11°CWB) COPd							7.07
		Pdh	kW						5.6
		PERd	%						282.8
		Tol (temperature operating limit) COPd							2.88
		Pdh	kW						12.1
		PERd	%						115.2
		TOL	°C						-10
		WTOL	°C						35
		Tbiv (bivalent temperature) COPd							2.97
		Pdh	kW						10.7
		PERd	%						118.8
Tbiv	°C						-7		
Rated heat output Psup (at Tdesign -10°C)	kW						0.4		
Cold climate water outlet 35°C	General	Annual energy consumption	kWh						7,356
		s (Seasonal space heating efficiency)	%						165
		Prated at -22°C	kW						13
		Qhe Annual energy consumption (GCV)	Gj						26
		A COPd							3.50
		Condition Pdh	kW						8.0
		(-7°CDB/-8°CWB) PERd	%						140.0
		B Condition Cdh (Degradation heating)							1.0
		(2°CDB/1°CWB) COPd							5.07
		Pdh	kW						4.9
		PERd	%						202.8
		C Condition Cdh (Degradation heating)							1.0
		(7°CDB/6°CWB) COPd							6.10
		Pdh	kW						5.3
		PERd	%						244.0
		D Condition Cdh (Degradation heating)							1.0
		(12°CDB/11°CWB) 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

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D9W + EPRA14DW1	ETVX16S23D9W + EPRA14DW1	ETVX16S18D9W + EPRA16DW1	ETVX16S23D9W + EPRA16DW1	ETVX16S18D9W + EPRA18DW1	ETVX16S23D9W + EPRA18DW1		
Space heating 	Cold climate water outlet 35°C	G	COPd						2.62		
			Condition	Pdh	kW					10.7	
			(-15°CDB/-)	PERd	%						104.8
			Tbiv (bivalent temperature)	COPd							2.62
				Pdh	kW						10.7
				PERd	%						104.8
	Warm climate water outlet 35°C	General	Tbiv	°C						-15	
			Rated heat output	Psup (at Tdesign -22°C)	kW						2.4
			Annual energy consumption	kWh							2,855
			s (Seasonal space heating efficiency)	%							231
			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						3.51	
			PERd	%						10.0	
											140.4
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd							1.0	
			Pdh	kW						5.67	
			PERd	%						8.3	
											226.8
	Tbiv (bivalent temperature)	COPd	Pdh	kW						4.96	
			PERd	%						9.8	
											198.4
											5
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd							1.0		
		Pdh	kW						7.04		
		PERd	%							5.7	
										281.6	

- (1)Capacity according to standard EN14511 and valid for heated water range dT = 3~8°C at Ta 7°C |
- (2)Condition: Ta DB/WB 7°C/6°C - LWC 35°C. (dT = 5°C) |
- (3)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				ETVX16S18D9WG + EPRA14DAW1	ETVX16S23D9WG + EPRA14DAW1	ETVX16S18D9WG + EPRA16DAW1	ETVX16S23D9WG + EPRA16DAW1	ETVX16S18D9WG + EPRA18DAW1	ETVX16S23D9WG + EPRA18DAW1
Indoor unit				ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W	ETVX16S18DA9W	ETVX16S23DA9W
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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				4.66 (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)		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETVX16S18D9WG + EPRA14DW1	ETVX16S23D9WG + EPRA14DW1	ETVX16S18D9WG + EPRA16DW1	ETVX16S23D9WG + EPRA16DW1	ETVX16S18D9WG + EPRA18DW1	ETVX16S23D9WG + EPRA18DW1	
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	Other	Capacity control	Inverter						
		Pck (Crankcase heater mode)	kW	0.000					
		Poff (Off mode)	kW	0.031					
		Psb (Standby mode)	kW	0.042					
	Pto (Thermostat off)	kW	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	kW						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	969	1,572	969	1,572	969	1,572
		COPdhw		2.51	2.55	2.51	2.55	2.51	2.55
		Heat up time		1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min
		wh (water heating efficiency)	%	106	107	106	107	106	107
		Qelec (Daily electricity consumption)	kWh	4.650	7.480	4.650	7.480	4.650	7.480
		Reference hot water temperature	°C	52.5					
	Cold climate	Stand-by power input	W	42.9	58.5	42.9	58.5	42.9	58.5
		Water heating energy efficiency class		A					
		AEC (Annual electricity consumption)	kWh	1,124	1,839	1,124	1,839	1,124	1,839
		COPdhw		2.17	2.19	2.17	2.19	2.17	2.19
		Heat up time		1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
		wh (water heating efficiency)	%	91					
		Qelec (Daily electricity consumption)	kWh	5.370	8.720	5.370	8.720	5.370	8.720
Domestic hot water heating	Cold climate	Reference hot water temperature	°C	52.5					
		Stand-by power input	W	45.0	63.7	45.0	63.7	45.0	63.7
		Warm climate	AEC (Annual electricity consumption)	kWh	876	1,413	876	1,413	876
	Warm climate	COPdhw		2.76	2.83	2.76	2.83	2.76	2.83
		Heat up time		1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min
		wh (water heating efficiency)	%	117	119	117	119	117	119
		Qelec (Daily electricity consumption)	kWh	4.220	6.740	4.220	6.740	4.220	6.740
		Reference hot water temperature	°C	52.5					
Stand-by power input	W	41.6	55.4	41.6	55.4	41.6	55.4		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D9WG + EPRA14DW1	ETVX16S23D9WG + EPRA14DW1	ETVX16S18D9WG + EPRA16DW1	ETVX16S23D9WG + EPRA16DW1	ETVX16S18D9WG + EPRA18DW1	ETVX16S23D9WG + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,122			
			s (Seasonal space heating efficiency) %						142			
			Prated at -10°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							26		
			SCOP							3.63		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd								2.12
					Pdh kW							12.5
					PERd %							84.8
					TOL °C							-10
			Rated heat output	WTOL °C								55
Psup (at Tdesign -10°C) kW									0.0			
COPd									2.12			
Pdh kW									12.5			
Tbiv (bivalent temperature)	PERd %								84.8			
		Tbiv °C							-10			
		Annual energy consumption kWh							9,589			
		s (Seasonal space heating efficiency) %							126			
Cold climate water outlet 55°C	General	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	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D9WG + EPRA14DW1	ETVX16S23D9WG + EPRA14DW1	ETVX16S18D9WG + EPRA16DW1	ETVX16S23D9WG + EPRA16DW1	ETVX16S18D9WG + EPRA18DW1	ETVX16S23D9WG + EPRA18DW1
Space heating Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0					
		COPd		3.67					
		Pdh kW		5.8					
		PERd %		146.8					
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
		COPd		4.69					
		Pdh kW		5.6					
		PERd %		187.6					
	D Condition (12°CDB/11°CWB)	COPd		6.12					
		Pdh kW		6.2					
		PERd %		244.8					
	Tol (temperature operating limit)	COPd		1.65					
		Pdh kW		10.6					
		PERd %		66.0					
		TOL °C		-22					
		WTOL °C		55					
	G Condition (-15°CDB/-)	COPd		2.17					
		Pdh kW		10.3					
	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		3,926					
		s (Seasonal space heating efficiency) %		167					
		Prated at 2°C kW		13					
		Qhe Annual energy consumption (GCV) GJ		14					
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0					
		COPd		2.62					
		Pdh kW		11.4					
		PERd %		104.8					
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
		COPd		3.65					
Pdh kW		8.2							
PERd %		146.0							
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0						
	COPd		5.37						
	Pdh kW		6.1						
	PERd %		214.8						
Tbiv (bivalent temperature)	COPd		3.18						
	Pdh kW		11.0						
	PERd %		127.2						
	Tbiv °C		4						
Water outlet 45°C	H Condition (2°C/-)	Max.	kW	11.1			11.8		
Average climate water outlet 35°C	General	SCOP		4.81					
		Annual energy consumption		5,366					
		s (Seasonal space heating efficiency) %		190					
		Prated at -10°C kW		13					
		Qhe Annual energy consumption (GCV) GJ		19					

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVX16S18D9WG + EPRA14DW1	ETVX16S23D9WG + EPRA14DW1	ETVX16S18D9WG + EPRA16DW1	ETVX16S23D9WG + EPRA16DW1	ETVX16S18D9WG + EPRA18DW1	ETVX16S23D9WG + EPRA18DW1		
Space heating 	Average climate water outlet 35°C	General	Seasonal space heating eff. class	A+++							
		A	COPd	2.97							
		B Condition (-7°CDB/-8°CWB)	Pdh	kW	10.7						
			PERd	%	118.8						
			Cdh (Degradation heating)	1.0							
		B Condition (2°CDB/1°CWB)	COPd	4.94							
			Pdh	kW	6.9						
			PERd	%	197.6						
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0							
			COPd	5.95							
			Pdh	kW	6.2						
		D Condition (12°CDB/11°CWB)	PERd	%	238.0						
			Cdh (Degradation heating)	1.0							
			COPd	7.07							
		Tol (temperature operating limit)	Pdh	kW	5.6						
			PERd	%	282.8						
			TOL	°C	-10						
		Tbiv (bivalent temperature)	WTOL	°C	35						
			COPd	2.97							
			Pdh	kW	10.7						
		Rated heat output	PERd	%	118.8						
			Tbiv	°C	-7						
			Psup (at Tdesign -10°C)	kW	0.4						
		Cold climate water outlet 35°C	Cold climate water outlet 35°C	General	Annual energy consumption	kWh	7,356				
				ηs (Seasonal space heating efficiency)	%	165					
				Prated at -22°C	kW	13					
				Qhe Annual energy consumption (GCV)	Gj	26					
A	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						
Tbiv (bivalent temperature)	COPd			2.16							
	Pdh			kW	10.1						
	PERd			%	86.4						
Rated heat output	TOL			°C	-22						
	WTOL			°C	35						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVX16S18D9WG + EPRA14DW1	ETVX16S23D9WG + EPRA14DW1	ETVX16S18D9WG + EPRA16DW1	ETVX16S23D9WG + EPRA16DW1	ETVX16S18D9WG + EPRA18DW1	ETVX16S23D9WG + EPRA18DW1							
Space heating Cold climate water outlet 35°C Warm climate water outlet 35°C	G Condition (-15°CDB/-)	COPd	Pd _h	kW						2.62						
					PERd	%						10.7				
							T _{biv} (bivalent temperature)	COPd						104.8		
									Pd _h	kW						2.62
											PERd	%				
		T _{biv}	°C						104.8							
				Rated heat output	P _{sup} (at T _{design} -22°C)	kW						-15				
							2.4									
		General	Annual energy consumption				kWh						2,855			
								s (Seasonal space heating efficiency)	%						231	
	Prated at 2°C									kW						13
		Q _{he} Annual energy consumption (GCV)	Gj						10							
	B Condition (2°CDB/1°CWB)			Cdh (Degradation heating)						1.0						
		COPd	Pd _h		kW						3.51					
						PERd	%						10.0			
													140.4			
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0						
					COPd	Pd _h	kW						5.67			
								PERd	%						8.3	
						226.8										
T _{biv} (bivalent temperature)	COPd	Pd _h	kW						4.96							
				PERd	%						9.8					
											198.4					
				T _{biv}	°C						5					
D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0									
		COPd	Pd _h	kW						7.04						
					PERd	%						5.7				
												281.6				

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

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

(3)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 + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1
Indoor unit				ETVZ16S18DA6V	ETVZ16S23DA6V	ETVZ16S18DA6V	-	ETVZ16S18DA6V	ETVZ16S23DA6V
Outdoor unit				EPRA14DAW1		EPRA16DAW1	-	EPRA18DAW1	
Heating capacity	Min.		kW	3.50 (1)		3.90 (1)	-	4.16 (1)	
	Nom.		kW	5.69 (2)		9.00 (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)	-	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)	-	2.57 (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	-	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP				4.66 (2)		5.00 (2)	-	5.00 (2)	
Pump	Type				Grundfos UPML GEO 25-105 130 PWM			-	Grundfos UPML GEO 25-105 130 PWM
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (5)		84.1 (5)	-	84.1 (5)	
Pump Main Zone	Nominal ESP unit	Heating	kPa	90.2 (5)		80.0 (5)	-	80.0 (5)	
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)	-	25.8 (2)

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETVZ16S18D6V + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1		
General	Supplier/ Manufacturer	Name and address	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			-	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium			
	details	Name or trademark	Daikin Europe N.V.			-	Daikin Europe N.V.			
	Product description	Air-to-water heat pump		Yes			-	Yes		
		Brine-to-water heat pump		No			-	No		
		Heat pump combination heater		Yes			-	Yes		
		Low-temperature heat pump		No			-	No		
		Supplementary heater integrated		Yes			-	Yes		
		Water-to-water heat pump		No			-	No		
	LW(A) Sound power level	Indoor	dB(A)	44.0			-	44.0		
		Outdoor	dB(A)	54.0			-	54.0		
LW(A) Sound power level (according to EN14825)						-				
Sound condition Ecodesign and energy label			Sound power in heating mode, measured according to the EN12102 under conditions of the EN14825			-	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 180 l	Stainless steel domestic hot water tank 230 L		
Space heating general	Other	Capacity control	Inverter			-	Inverter			
		Pck (Crankcase heater mode) kW	0.000			-	0.000			
		Poff (Off mode) kW	0.031			-	0.031			
		Psb (Standby mode) kW	0.042			-	0.042			
		Pto (Thermostat off) kW	0.033			-	0.033			
Domestic hot water heating	General	Declared load profile	L	XL	L	-	L	XL		
Space heating general	Integrated supplementary heater	Psup kW	6.0			-	6.0			
		Type of energy input	Electrical			-	Electrical			
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption) kWh	969	1,572	969	-	969	1,572		
		COPdhw	2.51	2.55	2.51	-	2.51	2.55		
		Heat up time wh (water heating efficiency) %	1h 06min 106	1h 19min 107	1h 06min 106	-	1h 06min 106	1h 19min 107		
		Qelec (Daily electricity consumption) kWh	4.650	7.480	4.650	-	4.650	7.480		
		Reference hot water temperature °C	52.5			-	52.5			
		Stand-by power input W	42.9	58.5	42.9	-	42.9	58.5		
	Cold climate	AEC (Annual electricity consumption) kWh	1,124	1,839	1,124	-	1,124	1,839		
		COPdhw	2.17	2.19	2.17	-	2.17	2.19		
		Heat up time wh (water heating efficiency) %	1h 04min 117	1h 16min 119	1h 04min 117	-	1h 04min 117	1h 16min 119		
		Qelec (Daily electricity consumption) kWh	5.370	8.720	5.370	-	5.370	8.720		
		Reference hot water temperature °C	52.5			-	52.5			
		Stand-by power input W	45.0	63.7	45.0	-	45.0	63.7		
Domestic hot water heating 	Cold climate Warm climate	AEC (Annual electricity consumption) kWh	876	1,413	876	-	876	1,413		
		COPdhw	2.76	2.83	2.76	-	2.76	2.83		
		Heat up time wh (water heating efficiency) %	1h 15min 117	1h 30min 119	1h 15min 117	-	1h 15min 117	1h 30min 119		
		Qelec (Daily electricity consumption) kWh	4.220	6.740	4.220	-	4.220	6.740		
		Reference hot water temperature °C	52.5			-	52.5			
		Stand-by power input W	41.6	55.4	41.6	-	41.6	55.4		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVZ16S18D6V + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1
Space heating Average climate water outlet 55°C		General	Annual energy consumption	kWh	7,236		-		7,236
			s (Seasonal space heating efficiency)	%	140		-		140
			Prated at -10°C	kW	13		-		13
			Qhe Annual energy consumption (GCV)	Gj	26		-		26
			SCOP		3.57		-		3.57
			Seasonal space heating eff. class		A++		-		A++
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		2.43		-		2.43
			Pdh	kW	11.1		-		11.1
			PERd	%	97.2		-		97.2
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		3.52		-		3.52
			Pdh	kW	6.7		-		6.7
			PERd	%	140.8		-		140.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		4.54		-		4.54
			Pdh	kW	6.5		-		6.5
			PERd	%	181.6		-		181.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		5.97		-		5.97
			Pdh	kW	5.2		-		5.2
			PERd	%	238.8		-		238.8
		Tol (temperature operating limit)	COPd		2.12		-		2.12
	Pdh	kW	12.5		-		12.5		
	PERd	%	84.8		-		84.8		
	TOL	°C	-10		-		-10		
	WTOL	°C	55		-		55		
Rated heat output	Psup (at Tdesign -10°C)	kW	0.0		-		0.0		
Tbiv (bivalent temperature)	COPd		2.12		-		2.12		
	Pdh	kW	12.5		-		12.5		
	PERd	%	84.8		-		84.8		
	Tbiv	°C	-10		-		-10		
Cold climate water outlet 55°C		General	Annual energy consumption	kWh	9,658		-		9,658
			s (Seasonal space heating efficiency)	%	125		-		125
			Prated at -22°C	kW	13		-		13
			Qhe Annual energy consumption (GCV)	Gj	35		-		35
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		2.74		-		2.74
			Pdh	kW	7.5		-		7.5
			PERd	%	109.6		-		109.6
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0		-		1.0
			COPd		3.67		-		3.67

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVZ16S18D6V + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1
Space heating 	Cold climate water outlet 55°C	B Condition (2°CDB/1°CWB)	Pdh	kW	5.8			-	5.8
			PERd	%	146.8			-	146.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			-	1.0
			COPd		4.69			-	4.69
			Pdh	kW	5.6			-	5.6
			PERd	%	187.6			-	187.6
		D Condition (12°CDB/11°CWB)	COPd		6.12			-	6.12
			Pdh	kW	6.2			-	6.2
			PERd	%	244.8			-	244.8
		Tol (temperature operating limit)	COPd		1.65			-	1.65
	Pdh		kW	10.6			-	10.6	
	PERd		%	66.0			-	66.0	
	TOL		°C	-22			-	-22	
	G	COPd		2.17			-	2.17	
		Condition (-15°CDB/-)		Pdh	kW	10.3			-
	Tbiv (bivalent temperature)	PERd		86.8			-	86.8	
		COPd		1.90			-	1.90	
		Pdh	kW	11.0			-	11.0	
		PERd	%	76.0			-	76.0	
	Rated heat output	Tbiv		-18			-	-18	
Psup (at Tdesign -22°C)		1.9			-	1.9			
Warm climate water outlet 55°C	General	Annual energy consumption		4,063			-	4,063	
		s (Seasonal space heating efficiency)		161			-	161	
		Prated at 2°C		13			-	13	
		Qhe Annual energy consumption (GCV)		15			-	15	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0			-	1.0	
		COPd		2.62			-	2.62	
		Pdh	kW	11.4			-	11.4	
		PERd	%	104.8			-	104.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0			-	1.0	
		COPd		3.65			-	3.65	
		Pdh	kW	8.2			-	8.2	
		PERd	%	146.0			-	146.0	
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0			-	1.0	
		COPd		5.37			-	5.37	
		Pdh	kW	6.1			-	6.1	
		PERd	%	214.8			-	214.8	
Tbiv (bivalent temperature)	COPd		3.18			-	3.18		
	Pdh	kW	11.0			-	11.0		
	PERd	%	127.2			-	127.2		
	Tbiv		4			-	4		
Water outlet 45°C	H Condition (2°C/-)	Max.		11.1		11.8		-	11.8
								-	
Average climate water outlet 35°C	General	SCOP		4.71			-	4.71	
		Annual energy consumption		5,479			-	5,479	
		s (Seasonal space heating efficiency)		186			-	186	
		Prated at -10°C		13			-	13	
		Qhe Annual energy consumption (GCV)		20			-	20	
		Seasonal space heating eff. class		A+++			-	A+++	
A Condition (-7°CDB/-8°CWB)	COPd		2.97			-	2.97		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVZ16S18D6V + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW	10.7	-	-	-	10.7
			PERd	%	118.8	-	-	-	118.8
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)		1.0	-	-	-	1.0
			COPd		4.94	-	-	-	4.94
			Pdh	kW	6.9	-	-	-	6.9
			PERd	%	197.6	-	-	-	197.6
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)		1.0	-	-	-	1.0
			COPd		5.95	-	-	-	5.95
			Pdh	kW	6.2	-	-	-	6.2
			PERd	%	238.0	-	-	-	238.0
	D Condition (12°CDB/11°CWB)	CdH (Degradation heating)		1.0	-	-	-	1.0	
		COPd		7.07	-	-	-	7.07	
		Pdh	kW	5.6	-	-	-	5.6	
		PERd	%	282.8	-	-	-	282.8	
	Tol (temperature operating limit)	COPd		2.88	-	-	-	2.88	
		Pdh	kW	12.1	-	-	-	12.1	
		PERd	%	115.2	-	-	-	115.2	
		TOL	°C	-10	-	-	-	-10	
		WTOL	°C	35	-	-	-	35	
	Tbiv (bivalent temperature)	COPd		2.97	-	-	-	2.97	
Pdh		kW	10.7	-	-	-	10.7		
PERd		%	118.8	-	-	-	118.8		
Tbiv		°C	-7	-	-	-	-7		
Rated heat output	Psup (at Tdesign -10°C)		0.4	-	-	-	0.4		
	General								
Cold climate water outlet 35°C	Annual energy consumption		kWh	7,425	-	-	-	7,425	
	s (Seasonal space heating efficiency)		%	163	-	-	-	163	
	Prated at -22°C		kW	13	-	-	-	13	
	Qhe Annual energy consumption (GCV)		Gj	27	-	-	-	27	
	A Condition (-7°CDB/-8°CWB)	COPd		3.50	-	-	-	3.50	
		Pdh	kW	8.0	-	-	-	8.0	
	B Condition (2°CDB/1°CWB)	PERd		140.0	-	-	-	140.0	
		CdH (Degradation heating)		1.0	-	-	-	1.0	
		COPd		5.07	-	-	-	5.07	
		Pdh	kW	4.9	-	-	-	4.9	
C Condition (7°CDB/6°CWB)	PERd		202.8	-	-	-	202.8		
	CdH (Degradation heating)		1.0	-	-	-	1.0		
	COPd		6.10	-	-	-	6.10		
D Condition (12°CDB/11°CWB)	Pdh		5.3	-	-	-	5.3		
	PERd		244.0	-	-	-	244.0		
	CdH (Degradation heating)		1.0	-	-	-	1.0		
Tol (temperature operating limit)	COPd		7.03	-	-	-	7.03		
	Pdh		5.7	-	-	-	5.7		
	PERd		281.2	-	-	-	281.2		
	COPd		2.16	-	-	-	2.16		
	Pdh		10.1	-	-	-	10.1		
G Condition (-15°CDB/-)	PERd		86.4	-	-	-	86.4		
	TOL		-22	-	-	-	-22		
	WTOL		35	-	-	-	35		
	COPd		2.62	-	-	-	2.62		
Pdh		kW	10.7	-	-	-	10.7		

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications					ETVZ16S18D6V + EPRA14DW1	ETVZ16S23D6V + EPRA14DW1	ETVZ16S18D6V + EPRA16DW1	ETVZ16S23D6V + EPRA16DW1	ETVZ16S18D6V + EPRA18DW1	ETVZ16S23D6V + EPRA18DW1	
Space heating 	Cold climate water outlet 35°C	G Condition (-15°CDB/-)	PERd	%		104.8		-		104.8	
			Tbiv (bivalent temperature)	COPd		2.62		-		2.62	
				Pdh	kW	10.7		-		10.7	
				PERd	%	104.8		-		104.8	
				Tbiv	°C	-15		-		-15	
		Warm climate water outlet 35°C	General	Rated heat output	Psup (at Tdesign -22°C)	kW	2.4		-		2.4
				Annual energy consumption	kWh	2,992		-		2,992	
				s (Seasonal space heating efficiency)	%	220		-		220	
				Prated at 2°C	kW	13		-		13	
				Qhe Annual energy consumption (GCV)	Gj	11		-		11	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd		1.0		-		1.0	
				COPd		3.51		-		3.51	
				Pdh	kW	10.0		-		10.0	
				PERd	%	140.4		-		140.4	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd		1.0		-		1.0	
				COPd		5.67		-		5.67	
				Pdh	kW	8.3		-		8.3	
				PERd	%	226.8		-		226.8	
		Tbiv (bivalent temperature)	COPd	COPd		4.96		-		4.96	
				Pdh	kW	9.8		-		9.8	
	PERd			%	198.4		-		198.4		
	Tbiv			°C	5		-		5		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	COPd		1.0		-		1.0		
			COPd		7.04		-		7.04		
			Pdh	kW	5.7		-		5.7		
			PERd	%	281.6		-		281.6		

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

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

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

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

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

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

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

Technical Specifications					ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1
Indoor unit					ETVZ16S18DA9W	ETVZ16S23DA9W	ETVZ16S18DA9W	ETVZ16S23DA9W	ETVZ16S18DA9W	ETVZ16S23DA9W
Outdoor unit					EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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	1h02min at 7°C ambient temperature	1h13min at 7°C ambient temperature
COP					4.66 (2)		5.00 (2)			
Pump							Grundfos UPML GEO 25-105 130 PWM			
Pump Additional Zone	Nominal ESP unit	Heating	kPa	97.6 (5)		84.1 (5)				
				90.2 (5)		80.0 (5)				
Pump Main Zone	Nominal ESP unit	Heating	kPa	16.3 (2)		25.8 (2)				
Water side Heat exchanger	Water flow rate	Heating	Nom.	l/min	16.3 (2)		25.8 (2)			

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1	
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	dB(A)	44.0					
Outdoor		dB(A)	54.0						
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						
Tank	Name		Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	Stainless steel domestic hot water tank 180 l	Stainless steel domestic hot water tank 230 L	
Space heating general	Other	Capacity control	Inverter						
		Pck (Crankcase heater mode)	0.000						
		Poff (Off mode)	0.031						
		Psb (Standby mode)	0.042						
		Pto (Thermostat off)	0.033						
Domestic hot water heating	General	Declared load profile	L	XL	L	XL	L	XL	
Space heating general	Integrated supplementary heater	Psup	9.0						
		Type of energy input	Electrical						
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	969	1,572	969	1,572	969	1,572	
		COPdhw	2.51	2.55	2.51	2.55	2.51	2.55	
		Heat up time	1h 06min	1h 19min	1h 06min	1h 19min	1h 06min	1h 19min	
		wh (water heating efficiency)	106	107	106	107	106	107	
		Qelec (Daily electricity consumption)	4.650	7.480	4.650	7.480	4.650	7.480	
		Reference hot water temperature	52.5						
		Stand-by power input	42.9	58.5	42.9	58.5	42.9	58.5	
		Water heating energy efficiency class	A						
		Cold climate	AEC (Annual electricity consumption)	1,124	1,839	1,124	1,839	1,124	1,839
			COPdhw	2.17	2.19	2.17	2.19	2.17	2.19
			Heat up time	1h 04min	1h 16min	1h 04min	1h 16min	1h 04min	1h 16min
			wh (water heating efficiency)	91					
			Qelec (Daily electricity consumption)	5.370	8.720	5.370	8.720	5.370	8.720
			Reference hot water temperature	52.5					
Stand-by power input	45.0		63.7	45.0	63.7	45.0	63.7		
Domestic hot water heating	Warm climate	AEC (Annual electricity consumption)	876	1,413	876	1,413	876	1,413	
		COPdhw	2.76	2.83	2.76	2.83	2.76	2.83	
		Heat up time	1h 15min	1h 30min	1h 15min	1h 30min	1h 15min	1h 30min	
		wh (water heating efficiency)	117	119	117	119	117	119	
		Qelec (Daily electricity consumption)	4.220	6.740	4.220	6.740	4.220	6.740	
		Reference hot water temperature	52.5						
		Stand-by power input	41.6	55.4	41.6	55.4	41.6	55.4	

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,236			
			s (Seasonal space heating efficiency) %						140			
			Prated at -10°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							26		
			SCOP							3.57		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					PdH kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd								2.12
					PdH kW							12.5
					PERd %							84.8
					TOL °C							-10
					WTOL °C							55
Rated heat output Tbiv (bivalent temperature)	Psup (at Tdesign -10°C)								0.0			
		COPd							2.12			
		PdH kW							12.5			
		PERd %							84.8			
		Tbiv °C							-10			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,658			
		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	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1	
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						2.17		
		Pdh	kW					10.3		
		PERd	%					86.8		
	Tbiv (bivalent temperature)	COPd						1.90		
		Pdh	kW					11.0		
		PERd	%					76.0		
	Rated heat output	Tbiv		°C				-18		
Psup (at Tdesign -22°C)		kW					1.9			
Warm climate water outlet 55°C	General	Annual energy consumption		kWh				4,063		
		ηs (Seasonal space heating efficiency)	%					161		
		Prated at 2°C	kW					13		
		Qhe Annual energy consumption (GCV)	Gj					15		
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)						1.0	
	COPd						2.62			
	Pdh		kW					11.4		
	PERd		%					104.8		
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0		
		COPd						3.65		
		Pdh	kW					8.2		
		PERd	%					146.0		
	D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0		
		COPd						5.37		
		Pdh	kW					6.1		
		PERd	%					214.8		
	Tbiv (bivalent temperature)	COPd						3.18		
		Pdh	kW					11.0		
		PERd	%					127.2		
		Tbiv	°C					4		
Water outlet 45°C	H Condition (2°C / -)	Max.	kW		11.1			11.8		
Average climate water outlet 35°C	General	SCOP						4.71		
		Annual energy consumption		kWh				5,479		
		ηs (Seasonal space heating efficiency)	%					186		
		Prated at -10°C	kW					13		
		Qhe Annual energy consumption (GCV)	Gj					20		
		Seasonal space heating eff. class						A+++		
A Condition (-7°CDB/-8°CWB)	COPd						2.97			

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1		
Space heating	Average climate water outlet 35°C	A Condition (-7°CDB/-8°CWB)	Pdh	kW				10.7			
			PERd	%				118.8			
		B Condition (2°CDB/1°CWB)	CdH (Degradation heating)						1.0		
			COPd						4.94		
			Pdh	kW					6.9		
		C Condition (7°CDB/6°CWB)	CdH (Degradation heating)						1.0		
			COPd						5.95		
			Pdh	kW					6.2		
		D Condition (12°CDB/11°CWB)	CdH (Degradation heating)						1.0		
			COPd						7.07		
			Pdh	kW					5.6		
		Tol (temperature operating limit)	CdH (Degradation heating)						282.8		
			COPd						2.88		
			Pdh	kW					12.1		
			PERd	%					115.2		
			TOL	°C					-10		
		Tbiv (bivalent temperature)	CdH (Degradation heating)						35		
			COPd						2.97		
			Pdh	kW					10.7		
			PERd	%					118.8		
		Rated heat output	Tbiv						-7		
			Psup (at Tdesign -10°C)						0.4		
		Cold climate water outlet 35°C	General	Annual energy consumption		kWh				7,425	
				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		
Tol (temperature operating limit)	CdH (Degradation heating)							2.16			
	COPd								10.1		
	Pdh			kW					86.4		
	PERd			%					-22		
	TOL			°C					35		
G Condition (+15°CDB/-)	CdH (Degradation heating)						2.62				
	COPd						10.7				

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETVZ16S18D9W + EPRA14DW1	ETVZ16S23D9W + EPRA14DW1	ETVZ16S18D9W + EPRA16DW1	ETVZ16S23D9W + EPRA16DW1	ETVZ16S18D9W + EPRA18DW1	ETVZ16S23D9W + EPRA18DW1	
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	2,992				
				ηs (Seasonal space heating efficiency)	%	220				
				Prated at 2°C	kW	13				
				Qhe Annual energy consumption (GCV)	Gj	11				
	B Condition (2°CDB/1°CWB)			Cdh (Degradation heating)	1.0					
			COPd	3.51						
			Pdh	kW	10.0					
			PERd	%	140.4					
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0					
	COPd			5.67						
	Pdh	kW		8.3						
	PERd	%		226.8						
	Tbiv (bivalent temperature)	COPd		4.96						
		Pdh	kW	9.8						
PERd		%	198.4							
Tbiv		°C	5							
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	1.0							
	COPd	7.04								
	Pdh	kW	5.7							
	PERd	%	281.6							

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

Technical Specifications				ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1	
Indoor unit				ETSHB16P30DA	ETSHB16P50DA	ETSHB16P30DA	ETSHB16P50DA	ETSHB16P30DA	ETSHB16P50DA	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		
Heating capacity	Nom.		kW	5.69 (1)		9.00 (1)				
Power input	Heating	Nom.	kW	1.22 (1)						
	Domestic hot water from 10°C	Nom.	kWh	3.50	4.98	3.50	4.98	3.50	4.98	
Heat up time from 10°C to 50°C				hr	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature
COP				4.66 (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						

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1	
Space heating general	Air to water unit	Rated airflow (outdoor)	m ³ /h	3,918				3,960		
	Other	Capacity control		Inverter						
		Poff (Off mode)	kW	0.031						
		Psb (Standby mode)	kW	0.042						
		Pto (Thermostat off)	kW	0.033						
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
		Function to fix water heating during off peak hours		Yes						
Space heating general	Integrated supplementary	Type of energy input	Electrical							
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,451	1,017	1,451	1,017	1,451	
		COPdhw		2.38	2.75	2.38	2.75	2.38	2.75	
		Mixed water at 40°C	l	149.0	215.7	149.0	215.7	149.0	215.7	
		wh (water heating efficiency)	%	101	115	101	115	101	115	
		Qelec (Daily electricity consumption)	kWh	4.904	6.924	4.904	6.924	4.904	6.924	
		Reference hot water temperature	°C	47.0						
		Stand-by power input	W	49.0	57.1	49.0	57.1	49.0	57.1	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,136	1,655	1,136	1,655	1,136	1,655
			COPdhw		2.13	2.43	2.13	2.43	2.13	2.43
			Mixed water at 40°C	l	149.0	215.7	149.0	215.7	149.0	215.7
			wh (water heating efficiency)	%	90	101	90	101	90	101
			Qelec (Daily electricity consumption)	kWh	5.476	7.851	5.476	7.851	5.476	7.851
Warm climate	AEC (Annual electricity consumption)	kWh	891	1,306	891	1,306	891	1,306		
	COPdhw		2.69	3.04	2.69	3.04	2.69	3.04		
	Mixed water at 40°C	l	149.0	215.7	149.0	215.7	149.0	215.7		
	wh (water heating efficiency)	%	115	128	115	128	115	128		
	Qelec (Daily electricity consumption)	kWh	4.330	6.263	4.330	6.263	4.330	6.263		
Space heating	Average climate water outlet	General	Annual energy consumption	kWh						
					7,236					

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1		
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							3.57	
		Seasonal space heating eff. class							A++	
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0
			COPd							2.43
			Pdh kW							11.1
			PERd %							97.2
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							3.52
			Pdh kW							6.7
			PERd %							140.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.54
			Pdh kW							6.5
			PERd %							181.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.97
			Pdh kW							5.2
			PERd %							238.8
		Tol (temperature operating limit)	COPd							2.12
			Pdh kW							12.5
			PERd %							84.8
			TOL °C							-10
		Rated heat output	Wsup (at Tdesign -10°C) kW							0.0
			Tbiv (bivalent temperature)	COPd						2.12
Pdh kW									12.5	
PERd %									84.8	
Cold climate water outlet 55°C	General	Tbiv °C						-10		
		Annual energy consumption kWh						9,658		
		Seasonal space heating efficiency) %							125	
		Prated at -22°C kW							13	
A Condition (-7°CDB/-8°CWB)	General	Qhe Annual energy consumption (GCV) GJ						35		
		Cdh (Degradation heating)							1.0	
		COPd							2.74	
		Pdh kW							7.5	
B Condition (2°CDB/1°CWB)	General	PERd %						109.6		
		Cdh (Degradation heating)							1.0	
		COPd							3.67	
		Pdh kW							5.8	
C Condition (7°CDB/6°CWB)	General	PERd %						146.8		
		Cdh (Degradation heating)							1.0	
		COPd							4.69	
		Pdh kW							5.6	
D Condition (12°CDB/11°CWB)	General	PERd %						187.6		
		COPd							6.12	
		Pdh kW							6.2	
		PERd %							244.8	

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1			
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 (Seasonal space heating efficiency)	Prated at 2°C	kW			4,063				
				Qhe Annual energy consumption (GCV)	Gj			15				
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0		
						Pdh	kW			11.4		
						PERd	%			104.8		
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				3.65				
				Pdh	kW			8.2				
PERd				%			146.0					
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)	COPd				1.0					
			Pdh	kW			6.1					
			PERd	%			214.8					
Tbiv (bivalent temperature)		COPd	Pdh	kW			3.18					
			PERd	%			11.0					
			Tbiv	°C			127.2					
Water outlet 45°C (-2°C/-)		H Condition	Max.		kW	11.1			11.8			
Average climate water outlet 35°C		General	SCOP					4.71				
				Annual energy consumption (Seasonal space heating efficiency)	Prated at -10°C	kW			5,479			
					Qhe Annual energy consumption (GCV)	Gj			186			
					Seasonal space heating eff. class				A+++			
	A Condition (-7°CDB/-8°CWB)				COPd	Pdh	kW			2.97		
		PERd	%				10.7					
							118.8					
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	COPd				1.0					
			Pdh	kW			4.94					
			PERd	%			6.9					
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	COPd				1.0					
			Pdh	kW			5.95					
							6.2					

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1	
Space heating	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%					238.0	
			D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)					1.0
				COPd						7.07
				Pdh	kW					5.6
				PERd	%					282.8
		Tol (temperature operating limit)		COPd						2.88
				Pdh	kW					12.1
				PERd	%					115.2
				TOL	°C					-10
				WTOL	°C					35
		Tbiv (bivalent temperature)		COPd						2.97
				Pdh	kW					10.7
				PERd	%					118.8
		Rated heat output		Tbiv	°C					-7
		Psup (at Tdesign -10°C)	kW					0.4		
Cold climate water outlet 35°C	General	Annual energy consumption		kWh					7,425	
		s (Seasonal space heating efficiency)		%						163
		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	WTOL		°C						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					2,992	
		s (Seasonal space heating efficiency)		%						220
		Prated at 2°C		kW						13

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSHB16P30D + EPRA14DW1	ETSHB16P50D + EPRA14DW1	ETSHB16P30D + EPRA16DW1	ETSHB16P50D + EPRA16DW1	ETSHB16P30D + EPRA18DW1	ETSHB16P50D + EPRA18DW1	
Space heating Warm climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj	11						
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)		1.0					
			COPd		3.51					
			Pdh	kW	10.0					
			PERd	%	140.4					
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)		1.0					
			COPd		5.67					
			Pdh	kW	8.3					
			PERd	%	226.8					
		Tbiv (bivalent temperature)	COPd		4.96					
			Pdh	kW	9.8					
			PERd	%	198.4					
			Tbiv	°C	5					
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)		1.0					
			COPd		7.04					
			Pdh	kW	5.7					
	PERd	%	281.6							

(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 + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1		
Indoor unit				ETSH16P30DA	ETSH16P50DA	ETSH16P30DA	ETSH16P50DA	ETSH16P30DA	ETSH16P50DA		
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1			
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	3.50	5.78	3.50	5.78	3.50	5.78		
Heat up time from 10°C to 50°C			hr	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature		
COP				4.66 (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	Daikin Europe N.V. - Zandvoordestraat 300, 8400 Oostende, Belgium									
		Daikin Europe N.V.									
	Product description	Air-to-water heat pump			Yes						
		Brine-to-water heat pump			No						
		Heat pump combination heater			Yes						
		Low-temperature heat pump			No						
		Supplementary heater integrated			No						
	Water-to-water heat pump			No							
LW(A) Sound power level	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	0.031					
		Psb (Standby mode)			kW	0.042					
		Pto (Thermostat off)			kW	0.033					
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL		
		Function to fix water heating during off peak hours		Yes							
Space heating general	Integrated supplementary	Type of energy input		Electrical							

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSH16P30D + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1		
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,506	1,017	1,506	1,017	1,506		
		COPdhw		2.38	2.67	2.38	2.67	2.38	2.67		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	101	111	101	111	101	111		
		Qelec (Daily electricity consumption)	kWh	4.904	7.140	4.904	7.140	4.904	7.140		
		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	1,136	1,669	1,136	1,669	1,136	1,669
				COPdhw		2.13	2.41	2.13	2.41	2.13	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			5.476	7.902	5.476	7.902	5.476	7.902		
Reference hot water temperature	°C			47.0							
Warm climate	Average climate	AEC (Annual electricity consumption)	kWh	891	1,430	891	1,430	891	1,430		
		COPdhw		2.69	2.81	2.69	2.81	2.69	2.81		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	115	117	115	117	115	117		
		Qelec (Daily electricity consumption)	kWh	4.330	6.794	4.330	6.794	4.330	6.794		
		Reference hot water temperature	°C	47.0							
Space heating	Average climate water outlet	General	Annual energy consumption	kWh	7,236						

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications			ETSH16P30D + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1
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				3.57	
			Seasonal space heating eff. class				A++	
			A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)				1.0
			COPd				2.43	
			Pdh kW				11.1	
			PERd %				97.2	
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0	
			COPd				3.52	
			Pdh kW				6.7	
			PERd %				140.8	
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0	
			COPd				4.54	
			Pdh kW				6.5	
			PERd %				181.6	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)				1.0	
			COPd				5.97	
			Pdh kW				5.2	
			PERd %				238.8	
		Tol (temperature operating limit)	COPd				2.12	
			Pdh kW				12.5	
			PERd %				84.8	
			TOL °C				-10	
			WTOL °C				55	
		Rated heat output	Psup (at Tdesign -10°C) kW				0.0	
Tbiv (bivalent temperature)	COPd				2.12			
	Pdh kW				12.5			
	PERd %				84.8			
	Tbiv °C				-10			
Cold climate water outlet 55°C	General	Annual energy consumption kWh				9,658		
		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	

2 Specifications

1 - 1 EPRA014-018DW

2



Technical Specifications				ETSH16P30D + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1	
Space heating	Cold climate water outlet 55°C	Tol (temperature operating limit)	COPd				1.65			
			Pdh	kW			10.6			
			PERd	%			66.0			
			TOL	°C			-22			
			WTOL	°C			55			
		G Condition (-15°CDB/-)	COPd				2.17			
			Pdh	kW			10.3			
			PERd	%			86.8			
			Tbiv (bivalent temperature)	COPd				1.90		
				Pdh	kW			11.0		
	PERd	%				76.0				
	Rated heat output	Tbiv	°C			-18				
		Psup (at Tdesign -22°C)	kW			1.9				
	Warm climate water outlet 55°C	General	Annual energy consumption	kWh			4,063			
			s (Seasonal space heating efficiency)	%			161			
			Prated at 2°C	kW			13			
			Qhe Annual energy consumption (GCV)	Gj			15			
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0		
		COPd					2.62			
		Pdh		kW			11.4			
PERd		%				104.8				
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)				1.0				
		COPd				3.65				
		Pdh	kW			8.2				
		PERd	%			146.0				
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)				1.0				
		COPd				5.37				
		Pdh	kW			6.1				
		PERd	%			214.8				
Tbiv (bivalent temperature)		COPd				3.18				
		Pdh	kW			11.0				
		PERd	%			127.2				
		Tbiv	°C			4				
Water outlet 45°C	H Condition (2°C/-)	Max.	kW	11.1			11.8			
Average climate water outlet 35°C	General	SCOP				4.71				
		Annual energy consumption	kWh			5,479				
		s (Seasonal space heating efficiency)	%			186				
		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				2.97				
		Pdh	kW			10.7				
		PERd	%			118.8				
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)				1.0				
		COPd				4.94				
		Pdh	kW			6.9				
		PERd	%			197.6				
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)				1.0				
		COPd				5.95				
Pdh		kW			6.2					

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSH16P30D + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1		
Space heating 	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	PERd	%					238.0		
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)					1.0		
				COPd					7.07		
		Pdh		kW				5.6			
		PERd		%				282.8			
		Tol (temperature operating limit)	COPd					2.88			
			Pdh	kW				12.1			
			PERd	%				115.2			
			TOL	°C				-10			
		Tbiv (bivalent temperature)	WTOL	°C				35			
			COPd					2.97			
			Pdh	kW				10.7			
			PERd	%				118.8			
		Rated heat output	Tbiv	°C				-7			
			Psup (at Tdesign -10°C)	kW				0.4			
Cold climate water outlet 35°C	General	Annual energy consumption	kWh						7,425		
		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						2,992		
		s (Seasonal space heating efficiency)	%						220		
		Prated at 2°C	kW							13	

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSH16P30D + EPRA14DW1	EPRA14DAW1	ETSH16P30D + EPRA16DW1	EPRA16DAW1	ETSH16P30D + EPRA18DW1	EPRA18DAW1							
Space heating Warm climate water outlet 35°C	General	Qhe Annual energy consumption (GCV)	Gj							11						
				B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0				
						COPd							3.51			
							Pdh	kW							10.0	
							PERd	%							140.4	
				C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0				
						COPd							5.67			
							Pdh	kW							8.3	
							PERd	%							226.8	
				Tbiv (bivalent temperature)	COPd							4.96				
						Pdh	kW							9.8		
						PERd	%							198.4		
						Tbiv	°C							5		
				D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0				
						COPd							7.04			
							Pdh	kW							5.7	
PERd	%							281.6								

(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 + EPRA14DW1	ETSB16P50D + EPRA14DW1	ETSB16P30D + EPRA16DW1	ETSB16P50D + EPRA16DW1	ETSB16P30D + EPRA18DW1	ETSB16P50D + EPRA18DW1
Indoor unit				ETSB16P30DA		ETSB16P50DA		ETSB16P30DA	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1	
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	3.50	4.98	3.50	4.98	3.50	4.98
Heat up time from 10°C to 50°C			hr	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature	1h25min at 7°C ambient temperature	1h46min at 7°C ambient temperature
COP				4.66 (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 ³ /h		3,918		3,960	
		Other	Capacity control		Inverter				
	Poff (Off mode)		kW		0.031				
	Psb (Standby mode)		kW		0.042				
	Pto (Thermostat off)		kW		0.033				
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL
		Function to fix water heating during off peak hours		Yes					
Space heating general	Integrated supplementary	Type of energy input		Electrical					

2 Specifications


1 - 1 EPRA014-018DW

Technical Specifications				ETSXB16P30D + EPRA14DW1	ETSXB16P50D + EPRA14DW1	ETSXB16P30D + EPRA16DW1	ETSXB16P50D + EPRA16DW1	ETSXB16P30D + EPRA18DW1	ETSXB16P50D + EPRA18DW1	
Domestic hot water heating 	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,451	1,017	1,451	1,017	1,451	
		COPdhw		2.38	2.75	2.38	2.75	2.38	2.75	
		Mixed water at 40°C	l	149.0	215.7	149.0	215.7	149.0	215.7	
		wh (water heating efficiency)	%	101	115	101	115	101	115	
		Qelec (Daily electricity consumption)	kWh	4.904	6.924	4.904	6.924	4.904	6.924	
		Reference hot water temperature	°C	47.0						
		Stand-by power input	W	49.0	57.1	49.0	57.1	49.0	57.1	
		Water heating energy efficiency class		A						
		Cold climate	AEC (Annual electricity consumption)	kWh	1,136	1,655	1,136	1,655	1,136	1,655
			COPdhw		2.13	2.43	2.13	2.43	2.13	2.43
Mixed water at 40°C	l		149.0	215.7	149.0	215.7	149.0	215.7		
wh (water heating efficiency)	%		90	101	90	101	90	101		
Qelec (Daily electricity consumption)	kWh		5.476	7.851	5.476	7.851	5.476	7.851		
Reference hot water temperature	°C		47.0							
Warm climate	AEC (Annual electricity consumption)	kWh	891	1,306	891	1,306	891	1,306		
	COPdhw		2.69	3.04	2.69	3.04	2.69	3.04		
	Mixed water at 40°C	l	149.0	215.7	149.0	215.7	149.0	215.7		
	wh (water heating efficiency)	%	115	128	115	128	115	128		
	Qelec (Daily electricity consumption)	kWh	4.330	6.263	4.330	6.263	4.330	6.263		
Domestic hot water heating 	Warm climate	Reference hot water temperature	°C	47.0						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications			ETSXB16P30D + EPRA14DW1	ETSXB16P50D + EPRA14DW1	ETSXB16P30D + EPRA16DW1	ETSXB16P50D + EPRA16DW1	ETSXB16P30D + EPRA18DW1	ETSXB16P50D + EPRA18DW1		
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh					7,122		
			s (Seasonal space heating efficiency) %						142	
			Prated at -10°C kW							13
			Qhe Annual energy consumption (GCV) GJ							26
			SCOP							3.63
			Seasonal space heating eff. class							A++
		A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0
			COPd							2.43
			Pdh kW							11.1
			PERd %							97.2
		B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0
			COPd							3.52
			Pdh kW							6.7
			PERd %							140.8
		C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0
			COPd							4.54
			Pdh kW							6.5
			PERd %							181.6
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							5.97
			Pdh kW							5.2
			PERd %							238.8
		Tol (temperature operating limit)	COPd							2.12
			Pdh kW							12.5
			PERd %							84.8
			TOL °C							-10
			WTOL °C							55
Rated heat output	Psup (at Tdesign -10°C) kW							0.0		
Tbiv (bivalent temperature)	COPd							2.12		
	Pdh kW							12.5		
	PERd %							84.8		
	Tbiv °C							-10		
Cold climate water outlet 55°C	General	Annual energy consumption kWh						9,589		
		s (Seasonal space heating efficiency) %							126	
		Prated at -22°C kW							13	
		Qhe Annual energy consumption (GCV) GJ							35	
	A Condition (-7°CDB/-8°CWB)	Cdh (Degradation heating)							1.0	
		COPd							2.74	
		Pdh kW							7.5	
		PERd %							109.6	
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
		COPd							3.67	
		Pdh kW							5.8	
		PERd %							146.8	
	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
		COPd							4.69	
		Pdh kW							5.6	
		PERd %							187.6	

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSXB16P30D + EPRA14DW1	ETSXB16P50D + EPRA14DW1	ETSXB16P30D + EPRA16DW1	ETSXB16P50D + EPRA16DW1	ETSXB16P30D + EPRA18DW1	ETSXB16P50D + EPRA18DW1	
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				3,926		
			Seasonal space heating efficiency	%				167		
			Prated at 2°C	kW				13		
			Qhe Annual energy consumption (GCV)	Gj				14		
B Condition (2°CDB/1°CWB)			Cdh (Degradation heating)					1.0		
		COPd					2.62			
		Pdh	kW				11.4			
		PERd	%				104.8			
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)					1.0			
		COPd					3.65			
		Pdh	kW				8.2			
		PERd	%				146.0			
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)					1.0			
		COPd					5.37			
		Pdh	kW				6.1			
		PERd	%				214.8			
Tbiv (bivalent temperature)		COPd					3.18			
		Pdh	kW				11.0			
		PERd	%				127.2			
		Tbiv	°C				4			
Water outlet 45°C (-2°C/-)	H Condition	Max.	kW	11.1			11.8			
Average climate water outlet 35°C	General	SCOP				4.81				
		Annual energy consumption	kWh			5,366				
		Seasonal space heating efficiency	%				190			
		Prated at -10°C	kW				13			
		Qhe Annual energy consumption (GCV)	Gj				19			
	Seasonal space heating eff. class					A+++				
	A Condition (-7°CDB/-8°CWB)	COPd					2.97			
		Pdh	kW				10.7			
		PERd	%				118.8			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)					1.0			
COPd						4.94				
Pdh		kW				6.9				
PERd		%				197.6				

2 Specifications


1 - 1 EPRA014-018DW

2

Technical Specifications				ETSXB16P30D + EPRA14DW1	ETSXB16P50D + EPRA14DW1	ETSXB16P30D + EPRA16DW1	ETSXB16P50D + EPRA16DW1	ETSXB16P30D + EPRA18DW1	ETSXB16P50D + EPRA18DW1	
Space heating	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)						1.0	
			COPd						5.95	
			Pdh kW						6.2	
			PERd %						238.0	
										1.0
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0
			COPd							7.07
			Pdh kW							5.6
			PERd %							282.8
										2.88
	Tol (temperature operating limit)	COPd							12.1	
		Pdh kW							115.2	
		PERd %							-10	
		TOL °C							35	
		WTOL °C							2.97	
	Tbiv (bivalent temperature)	COPd							10.7	
		Pdh kW							118.8	
		PERd %							-7	
		Tbiv °C							0.4	
	Rated heat output	Psup (at Tdesign -10°C)	kW						0.4	
Cold climate water outlet 35°C	General	Annual energy consumption	kWh						7,356	
		s (Seasonal space heating efficiency)	%						165	
		Prated at -22°C	kW						13	
		Qhe Annual energy consumption (GCV)	Gj						26	
									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 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSXB16P30D + EPRA14DW1	ETSXB16P50D + EPRA14DW1	ETSXB16P30D + EPRA16DW1	ETSXB16P50D + EPRA16DW1	ETSXB16P30D + EPRA18DW1	ETSXB16P50D + EPRA18DW1	
Space heating 	Warm climate water outlet 35°C	General	Annual energy consumption	2,855						
			Seasonal space heating efficiency	231						
			Prated at 2°C	13						
			Qhe Annual energy consumption (GCV)	10						
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)	1.0					
				COPd	3.51					
				Pdh	10.0					
				PERd	140.4					
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)	1.0					
				COPd	5.67					
				Pdh	8.3					
				PERd	226.8					
			Tbiv (bivalent temperature)	COPd	4.96					
				Pdh	9.8					
				PERd	198.4					
				Tbiv	5					
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)	1.0					
				COPd	7.04					
				Pdh	5.7					
				PERd	281.6					

(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 + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1	
Indoor unit				ETSX16P30DA	ETSX16P50DA	ETSX16P30DA	ETSX16P50DA	ETSX16P30DA	ETSX16P50DA	
Outdoor unit				EPRA14DAW1		EPRA16DAW1		EPRA18DAW1		
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	3.50	5.78	3.50	5.78	3.50	5.78	
Heat up time from 10°C to 50°C				hr	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature	1h25min at 7°C ambient temperature	2h18min at 7°C ambient temperature
COP				4.66 (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						
	LW(A) Sound power level	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	0.031					
		Psb (Standby mode)		kW	0.042					
		Pto (Thermostat off)		kW	0.033					
Domestic hot water heating	General	Declared load profile		L	XL	L	XL	L	XL	
		Function to fix water heating during off peak hours		Yes						
Space heating general	Integrated supplementary	Type of energy input		Electrical						

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSX16P30D + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1		
Domestic hot water heating	Average climate	AEC (Annual electricity consumption)	kWh	1,017	1,506	1,017	1,506	1,017	1,506		
		COPdhw		2.38	2.67	2.38	2.67	2.38	2.67		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	101	111	101	111	101	111		
		Qelec (Daily electricity consumption)	kWh	4.904	7.140	4.904	7.140	4.904	7.140		
		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	1,136	1,669	1,136	1,669	1,136	1,669
				COPdhw		2.13	2.41	2.13	2.41	2.13	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			5.476	7.902	5.476	7.902	5.476	7.902		
Reference hot water temperature	°C			47.0							
Warm climate	Average climate	AEC (Annual electricity consumption)	kWh	891	1,430	891	1,430	891	1,430		
		COPdhw		2.69	2.81	2.69	2.81	2.69	2.81		
		Mixed water at 40°C	l	149.0	237.2	149.0	237.2	149.0	237.2		
		wh (water heating efficiency)	%	115	117	115	117	115	117		
		Qelec (Daily electricity consumption)	kWh	4.330	6.794	4.330	6.794	4.330	6.794		
Domestic hot water heating	Warm climate	Reference hot water temperature	°C	47.0							

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				ETSX16P30D + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1			
Space heating 	Average climate water outlet 55°C	General	Annual energy consumption kWh						7,122			
			s (Seasonal space heating efficiency) %						142			
			Prated at -10°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							26		
			SCOP							3.63		
			Seasonal space heating eff. class							A++		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							2.43
					PERd %							11.1
												97.2
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.52
					PERd %							6.7
												140.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.54
					PERd %							6.5
												181.6
			D Condition (12°CDB/11°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							5.97
					PERd %							5.2
												238.8
			Tol (temperature operating limit)	COPd								2.12
					Pdh kW							12.5
					PERd %							84.8
					TOL °C							-10
			Rated heat output	WTOL °C								55
Psup (at Tdesign -10°C) kW									0.0			
COPd									2.12			
Pdh kW									12.5			
Tbiv (bivalent temperature)	PERd %								84.8			
		Tbiv °C							-10			
		Annual energy consumption kWh							9,589			
		s (Seasonal space heating efficiency) %							126			
Cold climate water outlet 55°C	General	Annual energy consumption kWh							9,589			
			s (Seasonal space heating efficiency) %						126			
			Prated at -22°C kW							13		
			Qhe Annual energy consumption (GCV) GJ							35		
			A Condition (-7°CDB/-8°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							2.74
					PERd %							7.5
												109.6
			B Condition (2°CDB/1°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							3.67
					PERd %							5.8
												146.8
			C Condition (7°CDB/6°CWB)	CdH (Degradation heating)	COPd							1.0
					Pdh kW							4.69
					PERd %							5.6
												187.6

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSX16P30D + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1	
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		
	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				3,926		
			ηs (Seasonal space heating efficiency)	%				167		
			Prated at 2°C	kW				13		
			Qhe Annual energy consumption (GCV)	Gj				14		
B Condition (2°CDB/1°CWB)			Cdh (Degradation heating)					1.0		
		COPd					2.62			
		Pdh	kW				11.4			
		PERd	%				104.8			
C Condition (7°CDB/6°CWB)		Cdh (Degradation heating)					1.0			
		COPd					3.65			
		Pdh	kW				8.2			
		PERd	%				146.0			
D Condition (12°CDB/11°CWB)		Cdh (Degradation heating)					1.0			
		COPd					5.37			
		Pdh	kW				6.1			
		PERd	%				214.8			
Tbiv (bivalent temperature)		COPd					3.18			
		Pdh	kW				11.0			
		PERd	%				127.2			
		Tbiv	°C				4			
Water outlet 45°C (-2°C/-)	H Condition	Max.	kW	11.1			11.8			
Average climate water outlet 35°C	General	SCOP					4.81			
		Annual energy consumption	kWh				5,366			
		ηs (Seasonal space heating efficiency)	%				190			
		Prated at -10°C	kW				13			
		Qhe Annual energy consumption (GCV)	Gj				19			
	Seasonal space heating eff. class						A+++			
	A Condition (-7°CDB/-8°CWB)	COPd					2.97			
		Pdh	kW				10.7			
		PERd	%				118.8			
	B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)					1.0			
COPd						4.94				
Pdh		kW				6.9				
PERd		%				197.6				

2 Specifications


1 - 1 EPRA014-018DW

Technical Specifications			ETSX16P30D + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1	
Space heating 	Average climate water outlet 35°C	C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)					1.0	
			COPd					5.95	
		Pdh	kW					6.2	
		PERd	%					238.0	
		D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)						1.0
			COPd						7.07
			Pdh	kW					5.6
			PERd	%					282.8
		Tol (temperature operating limit)	COPd						2.88
			Pdh	kW					12.1
	PERd		%					115.2	
	TOL		°C					-10	
	Tbiv (bivalent temperature)	WTOL	°C					35	
		COPd						2.97	
		Pdh	kW					10.7	
		PERd	%					118.8	
	Rated heat output	Tbiv	°C					-7	
		Psup (at Tdesign -10°C)	kW					0.4	
	Cold climate water outlet 35°C	General	Annual energy consumption	kWh					7,356
			s (Seasonal space heating efficiency)	%					165
Prated at -22°C			kW					13	
Qhe Annual energy consumption (GCV)			Gj					26	
A Condition (-7°CDB/-8°CWB)		COPd						3.50	
		Pdh	kW					8.0	
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		

2 Specifications

1 - 1 EPRA014-018DW

2

Technical Specifications				ETSX16P30D + EPRA14DW1	ETSX16P50D + EPRA14DW1	ETSX16P30D + EPRA16DW1	ETSX16P50D + EPRA16DW1	ETSX16P30D + EPRA18DW1	ETSX16P50D + EPRA18DW1			
Space heating 	Warm climate water outlet 35°C	General	Annual energy consumption	kWh						2,855		
			ηs (Seasonal space heating efficiency)	%						231		
			Prated at 2°C	kW						13		
			Qhe Annual energy consumption (GCV)	Gj						10		
			B Condition (2°CDB/1°CWB)	Cdh (Degradation heating)							1.0	
					COPd							3.51
					Pdh	kW						10.0
					PERd	%						140.4
			C Condition (7°CDB/6°CWB)	Cdh (Degradation heating)							1.0	
					COPd							5.67
					Pdh	kW						8.3
					PERd	%						226.8
			Tbiv (bivalent temperature)	COPd							4.96	
					Pdh	kW						9.8
					PERd	%						198.4
					Tbiv	°C						5
			D Condition (12°CDB/11°CWB)	Cdh (Degradation heating)							1.0	
					COPd							7.04
					Pdh	kW						5.7
					PERd	%						281.6

(1)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				EPRA14DW1	EPRA16DW1	EPRA18DW1	
Casing	Colour	Silver / Black					
	Material	Polyester painted galvanised steel plate					
Dimensions	Unit	Height	mm	1,003			
		Width	mm	1,270			
		Depth	mm	533			
	Packed unit	Height	mm	1,340			
		Width	mm	1,440			
		Depth	mm	690			
Weight	Unit	kg		151			
	Packed unit	kg		186			
Packing	Material	Carton / Wood (pallet) / PE (Straps) / Plastic foil					
	Weight	kg		27			
Heat exchanger	Length	mm		1,200			
	Rows	Quantity	3				
	Fin pitch	mm		2.20			
	Passes	Quantity	10				
	Face area	m ²		119			
	Stages	Quantity	44				
	Tube type	ø7 Hi-XSL					
	Fin	Type	WF fin				
		Treatment	Anti-corrosion treatment (PE)				
	Fan	Type	Propeller fan				
Quantity		1					
Air flow rate		Heating	Nom.	m ³ /min	65.3	66.0	
		Cooling	Nom.	m ³ /min	106		
Discharge direction	Horizontal						
Fan motor	Quantity	1					
	Model	Brushless DC motor					
	Output	W		210			
	Drive	Direct drive					
	Speed	Steps	12				
		Heating	Nom.	rpm	470	475	
Cooling		Nom.	rpm	750			
Compressor	Quantity	1					
	Model	JT9KFDMYR@SP					
	Type	Hermetically sealed scroll compressor					
	Starting method	Inverter driven					
PED	Category	Category III					

2 Specifications

1 - 1 EPRA014-018DW

Technical Specifications				EPRA14DW1	EPRA16DW1	EPRA18DW1	
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		
Refrigerant oil	Circuits	Quantity		1			
	Type				FW68DE		
Piping connections	Piping length	OU - IU	Max.	m	1.85		
		High pressure side	Design pressure	bar	56		
	Level difference	IU - OU	Max.	m	10.0		
		Water circuit	Filter ball valve	Yes			
Defrost method				Reversed cycle			
Defrost control				Sensor for outdoor heat exchanger temperature			
Capacity control	Method				Inverter controlled		
Safety devices	Item	01				High pressure switch	
		02				Low pressure switch	
		03				Fuse	
		04				Compressor motor protection	
		05				Pressure relief valve	
Electrical Specifications				EPRA14DW1	EPRA16DW1	EPRA18DW1	
Power supply	Name					W1	
	Phase					3~	
	Frequency		Hz			50	
	Voltage		V			400	
	Voltage range	Min.	%			-10	
		cos phi	Nom.			0.82	0.87
	Max.	%			0.98		
Current	Minimum Ssc value		kVa			Equipment complying with EN / IEC 61000-3-2	
	Recommended fuses		A			16	
	Inverter modulation	Min.	%		40 (3)	39 (3)	37 (3)
Wiring connections	For power supply	Remark		See installation manual indoor unit			
	For connection with indoor	Remark		See installation manual indoor unit			

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

(2)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). |

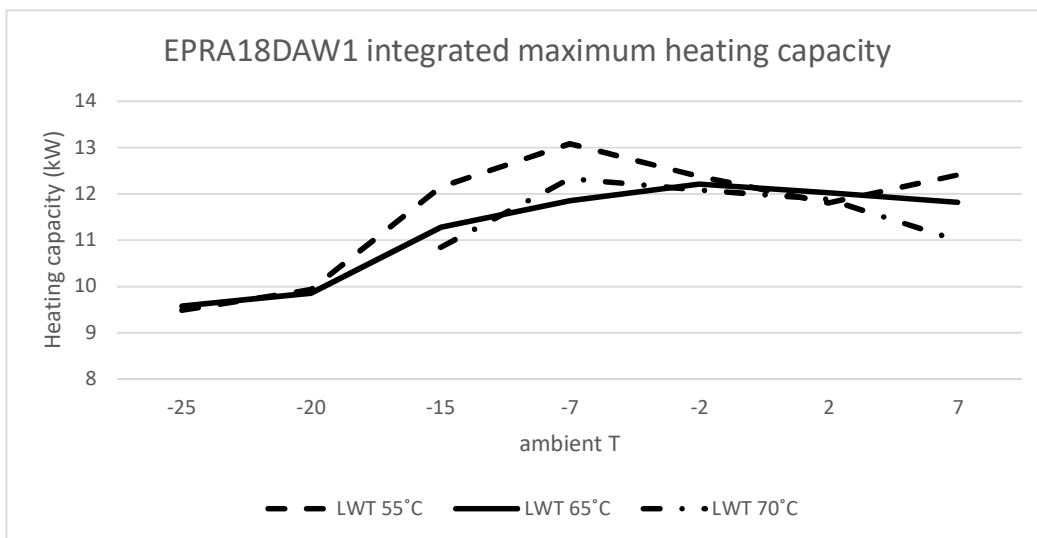
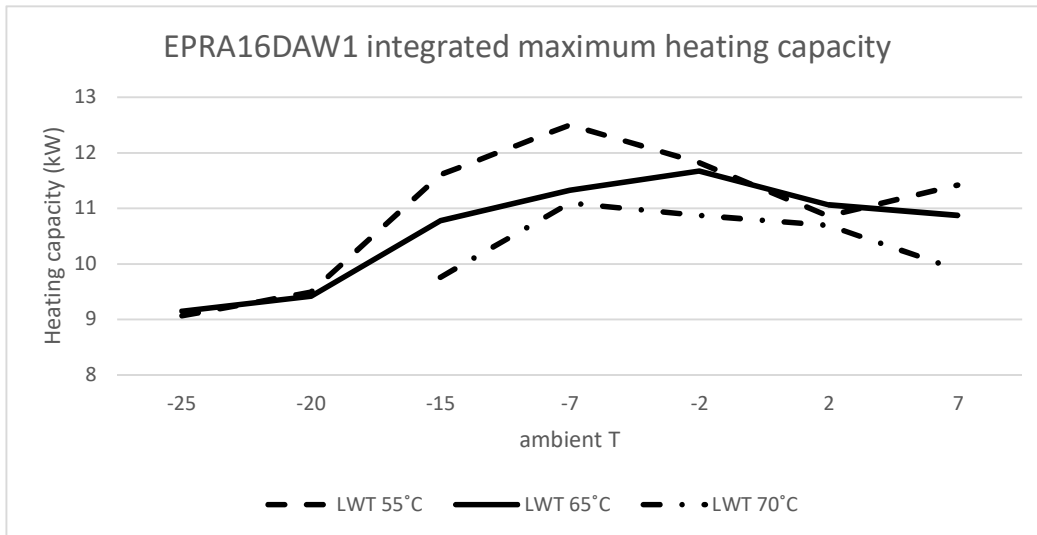
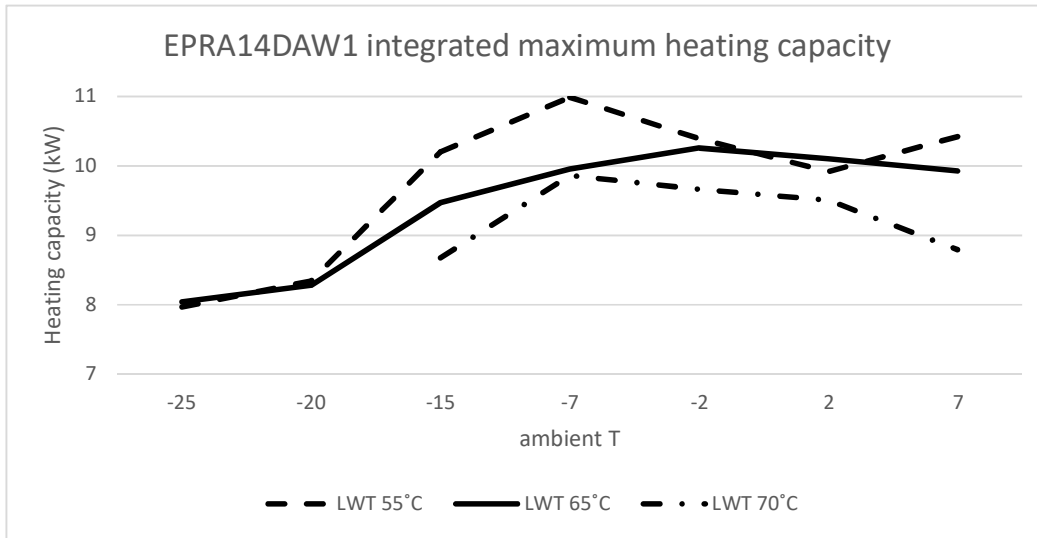
(3)Percentage of heating capacity at Ta DB/WB 7°C/6°C - LWC 35°C (DT = 5°C)

3 Capacity graphs

3 - 1 Heating Capacity Graphs

3

EPRA014-018DW

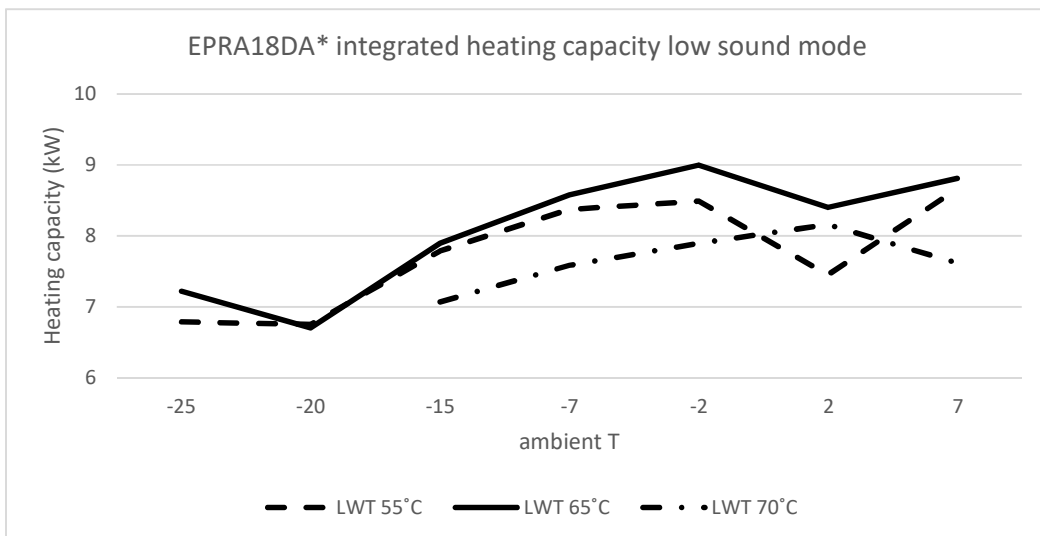
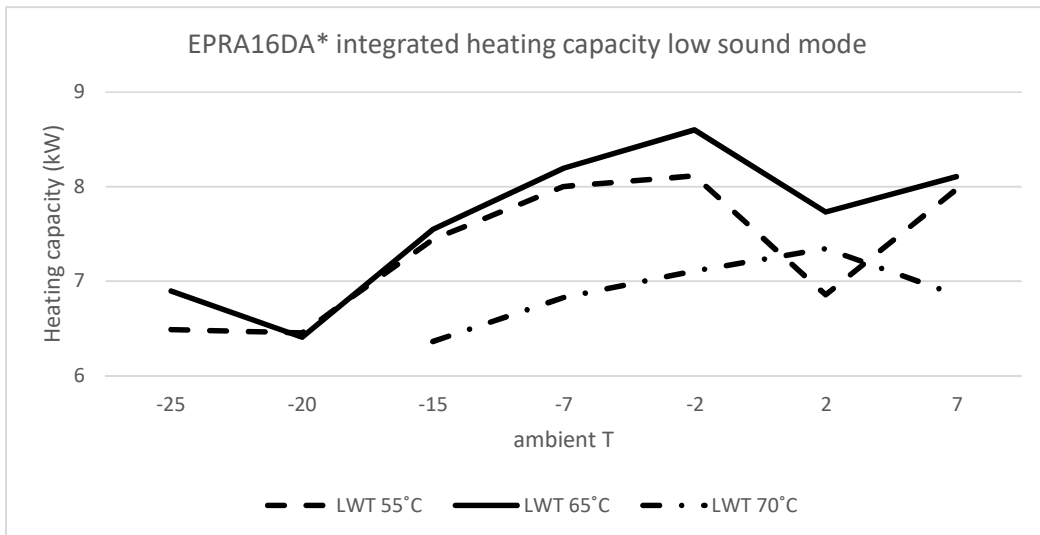
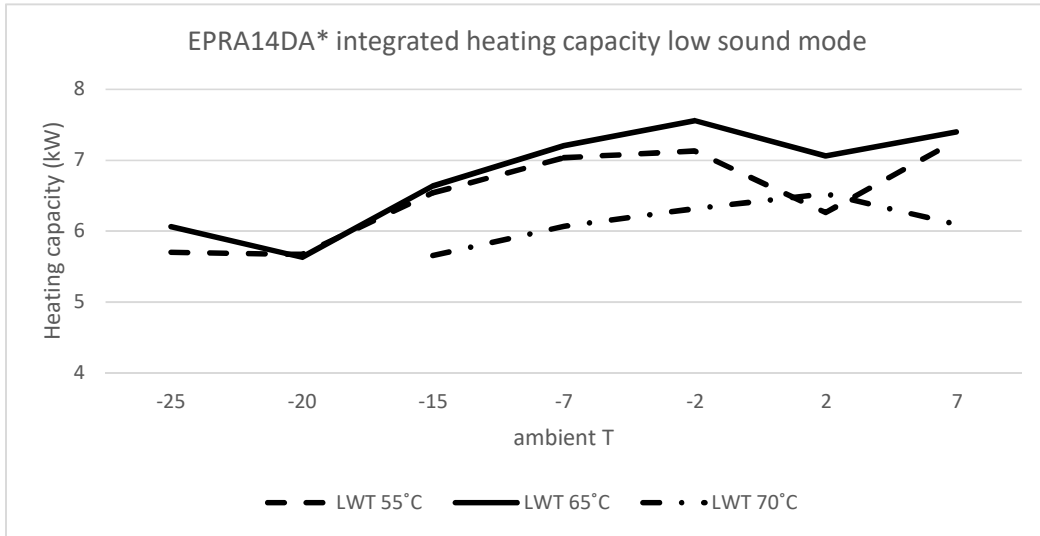


4D126946A

3 Capacity graphs

3 - 2 Heating Capacity Graphs

EPRA014-018DW



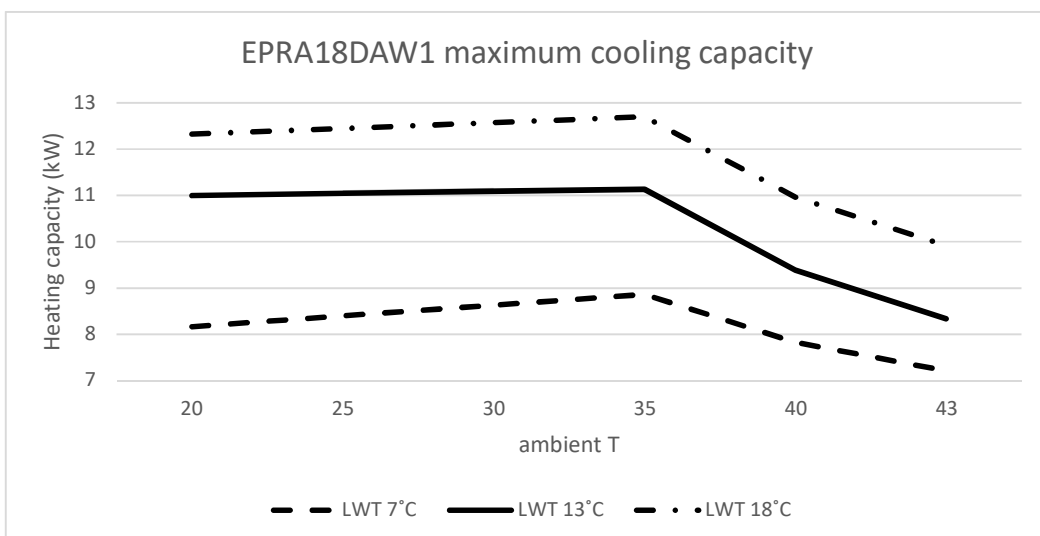
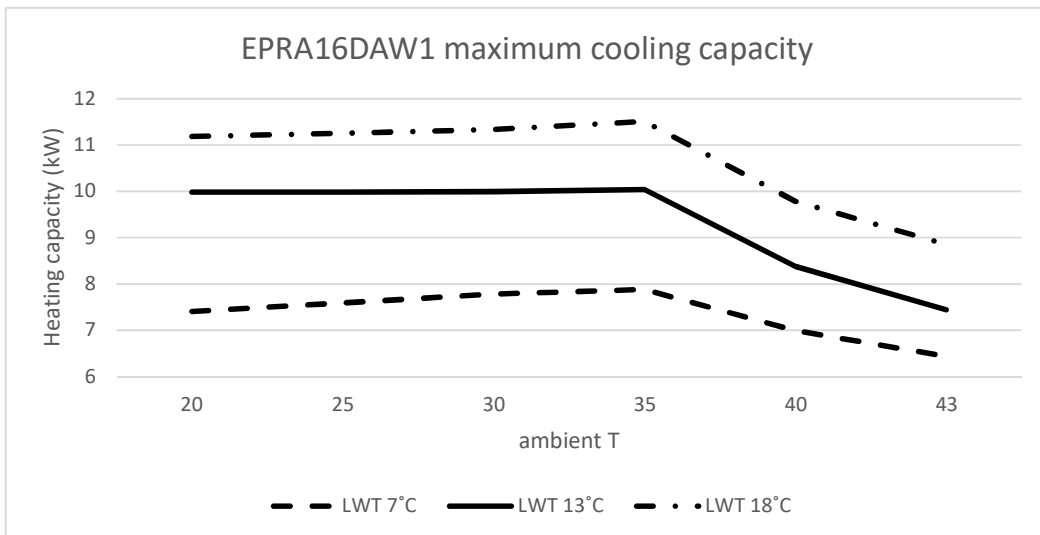
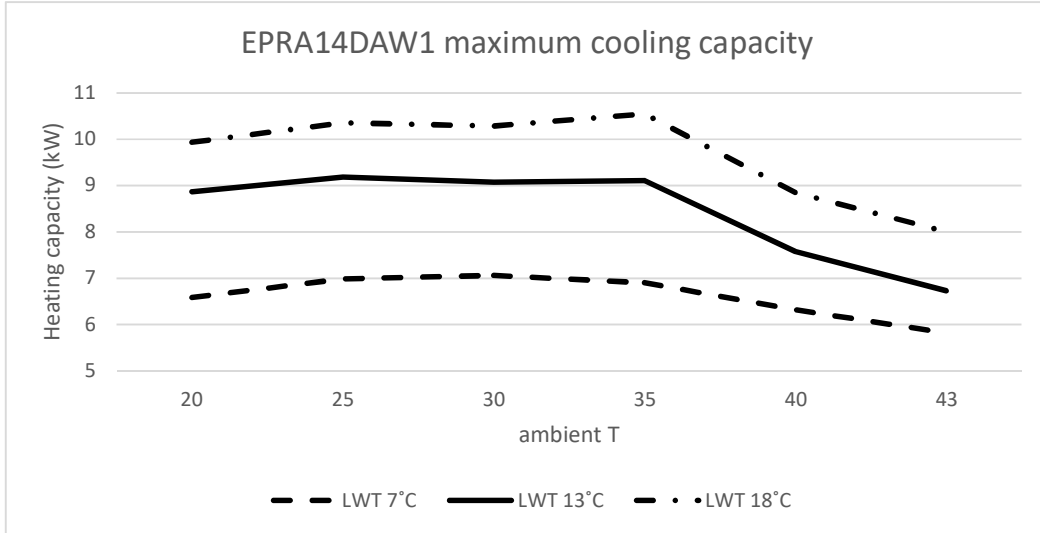
4D126948

3 Capacity graphs

3 - 3 Cooling Capacity Graphs

3

EPRA014-018DW

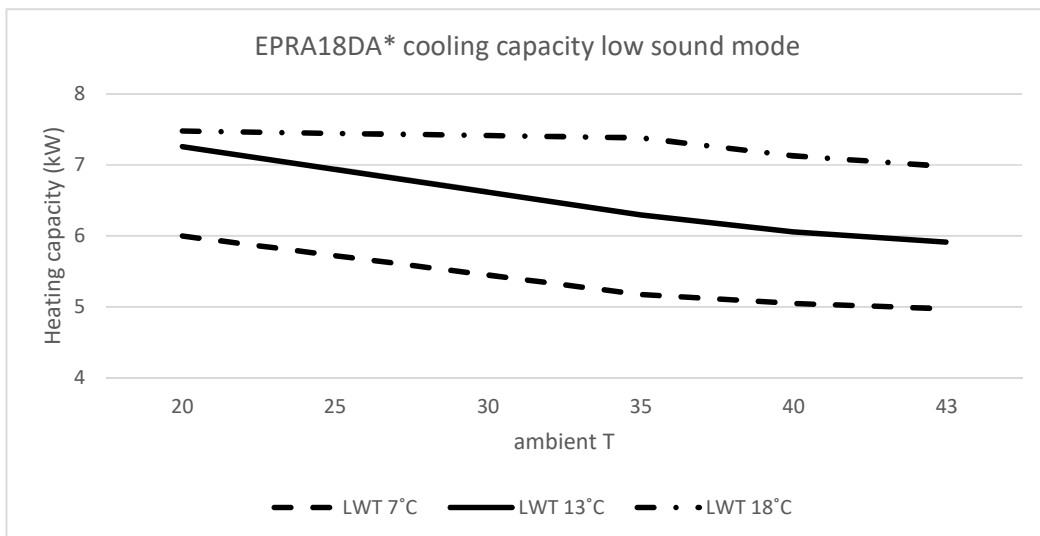
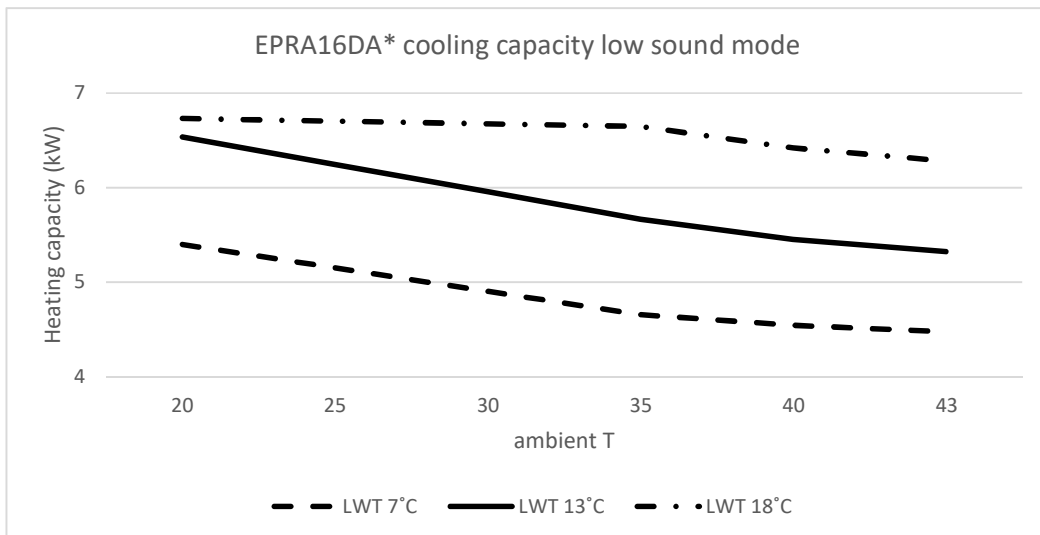
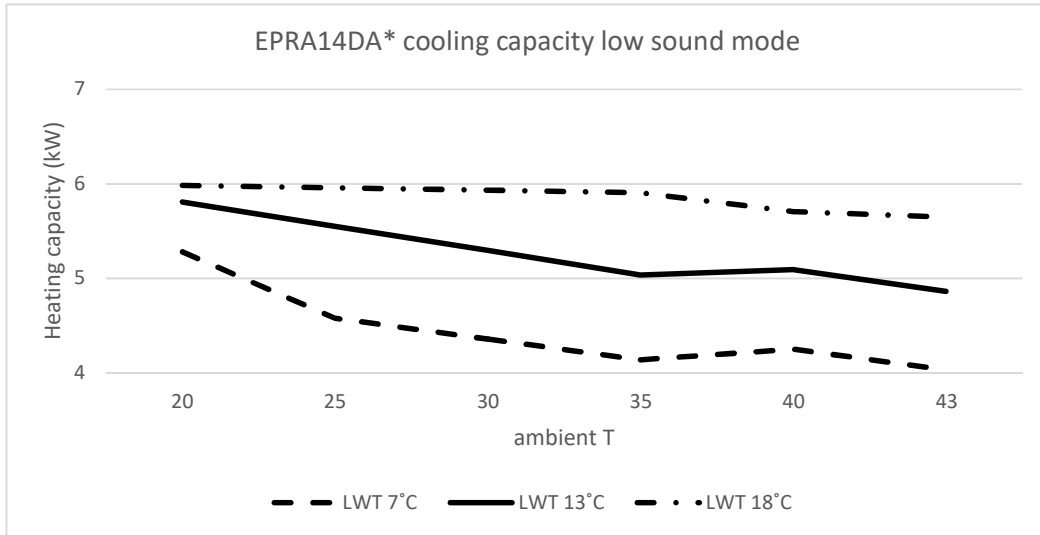


4D126949

3 Capacity graphs

3 - 4 Cooling Capacity Graphs

EPRA014-018DW

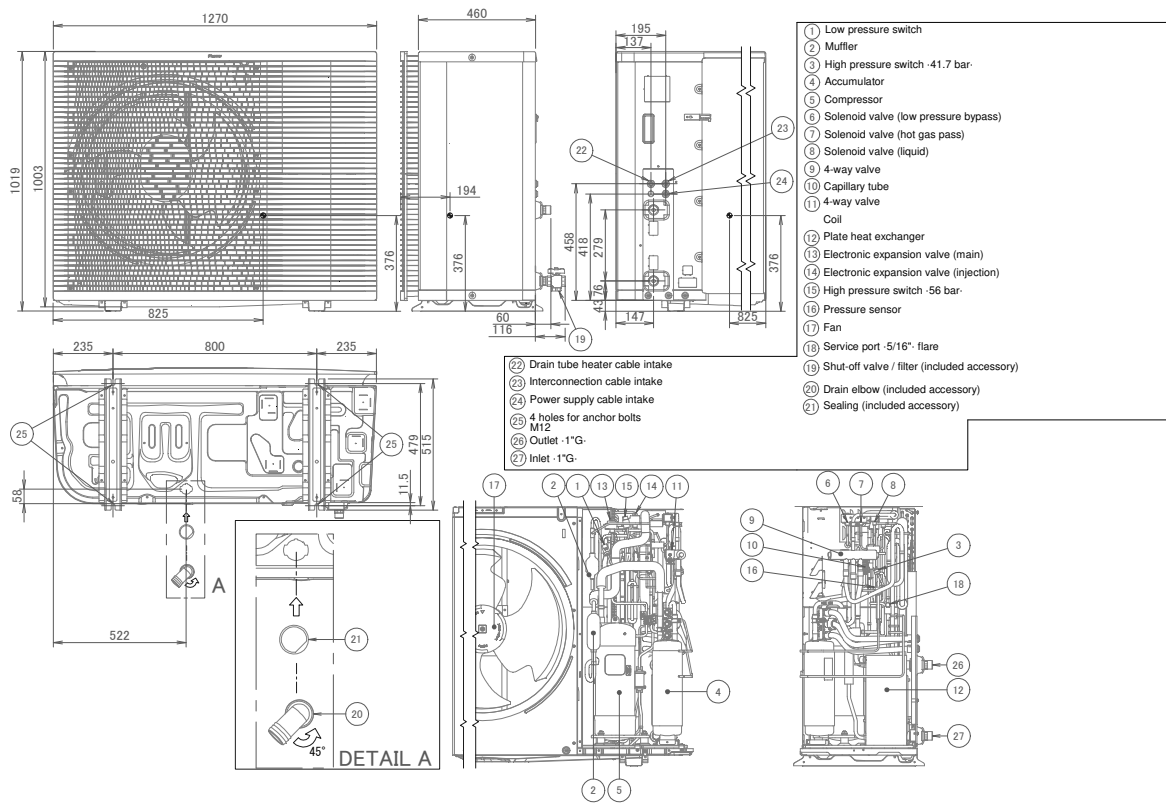


4D126947

4 Dimensional drawings

4 - 1 Dimensional Drawings

EPRA014-018DV
EPRA014-018DW

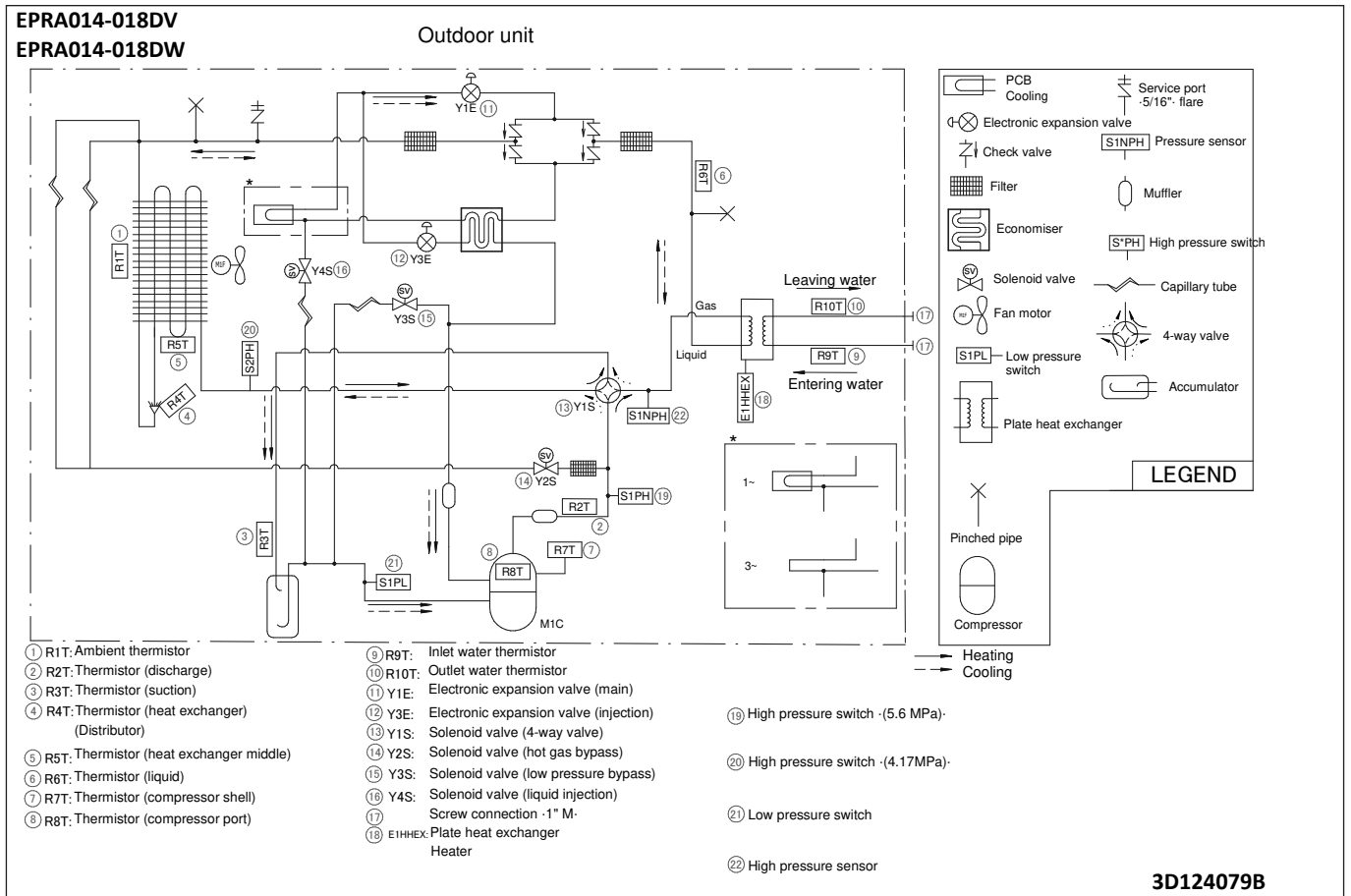


3D124101B

5 Piping diagrams

5 - 1 Piping Diagrams

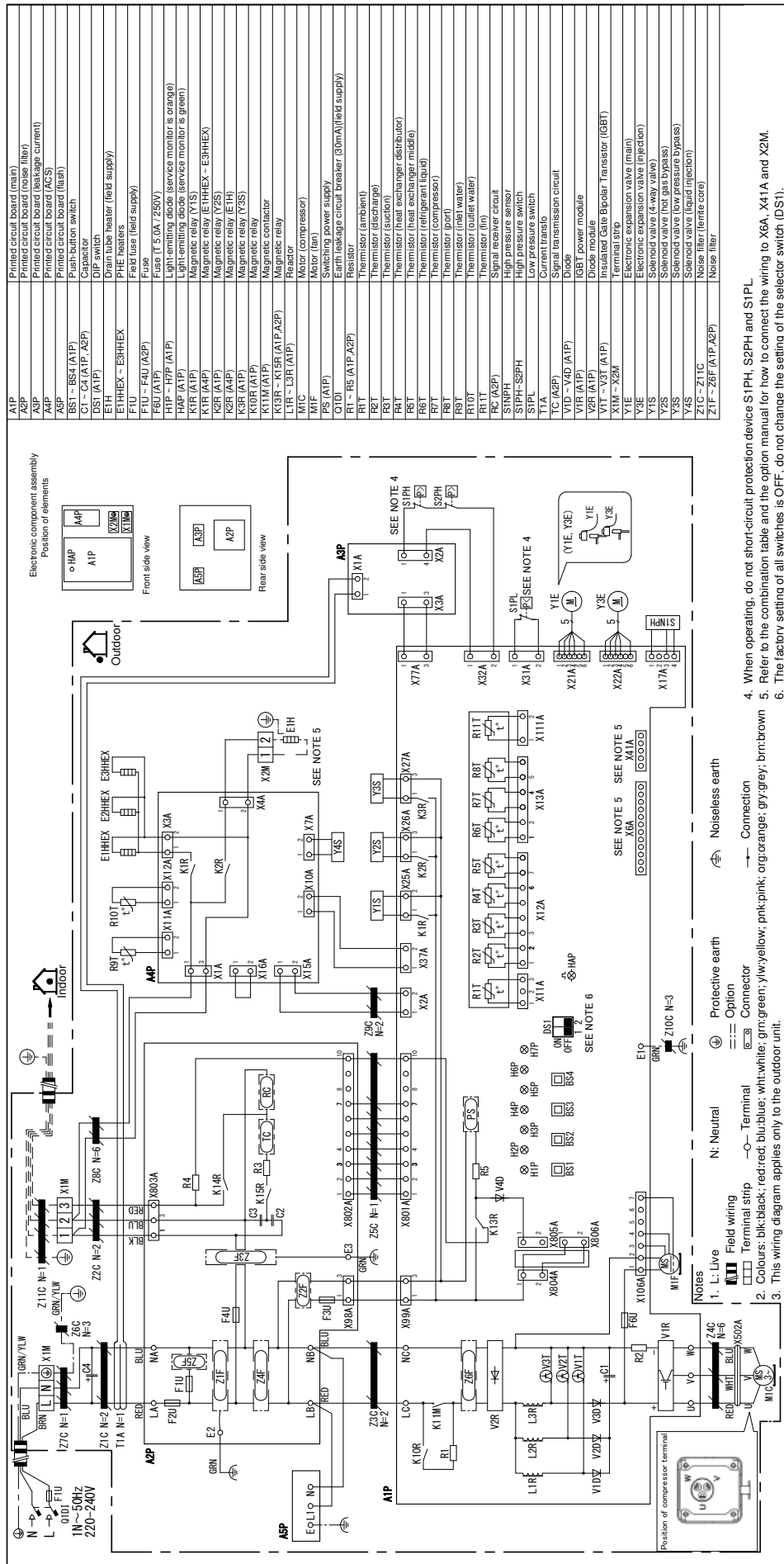
5



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
E1H	Drain tube heater (field supply)
E1HHEX ~ E5HHEX	PHF heaters
F1U ~ F4U (A2P)	Field fuse (field supply)
FUSE	Fuse
FUSE (1.50A/250V)	Fuse (1.50A/250V)
L1	Light-limiting diode (service monitor is orange)
L2	Light-limiting diode (service monitor is green)
M1R (A1P)	Magnetic relay (Y1S)
K1R (A1P)	Magnetic relay (E1HHEX ~ E5HHEX)
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)
M1R (A1P)	Motor (fan)
R1 (A1P)	Switching power supply
C1D	Switching circuit breaker (50mA)(field supply)
R1 ~ R5 (A1P/A2P)	Resistor
R1	Thermistor (ambient)
R2T	Thermistor (discharge)
R3T	Thermistor (suction)
R4T	Thermistor (heat exchanger distributor)
R5T	Thermistor (heat exchanger middle)
R6T	Thermistor (refrigerant liquid)
R7T	Thermistor (compressor)
R8T	Thermistor (port)
R9T	Thermistor (inlet water)
R10T	Thermistor (outlet water)
R11T	Thermistor (fan)
RC (A2P)	Signal (for circuit)
S1PH	High pressure sensor
S1PH-S2PH	Low pressure switch
T1A	Current transio
TC (A2P)	Signal transmission circuit
VID ~ VID (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).

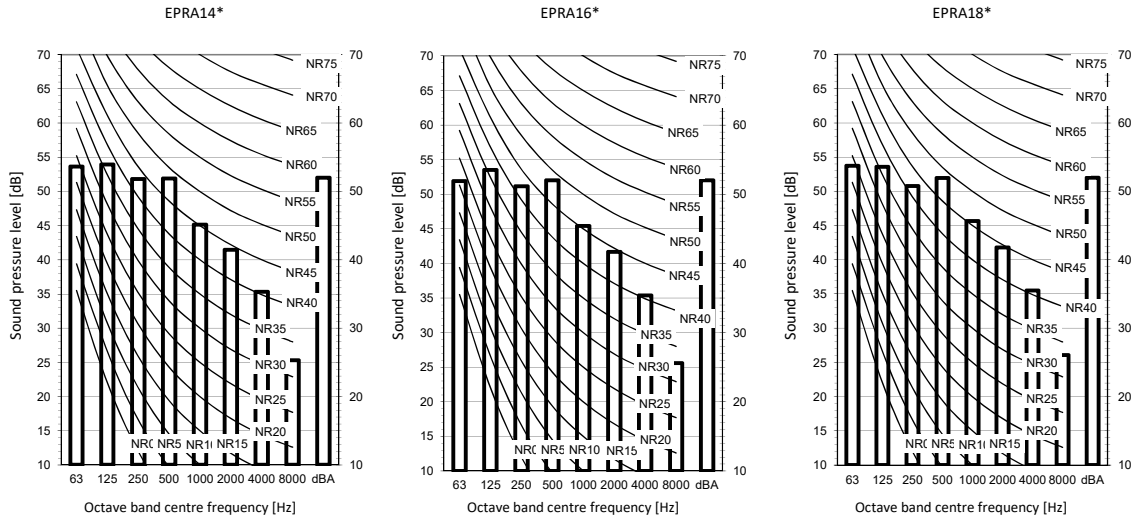
2D124518A

7 Sound data

7 - 1 Sound Pressure Spectrum - Cooling

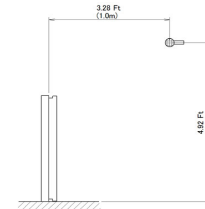
7

EPRA014-018DV
EPRA014-018DW Cooling Sound



Notes

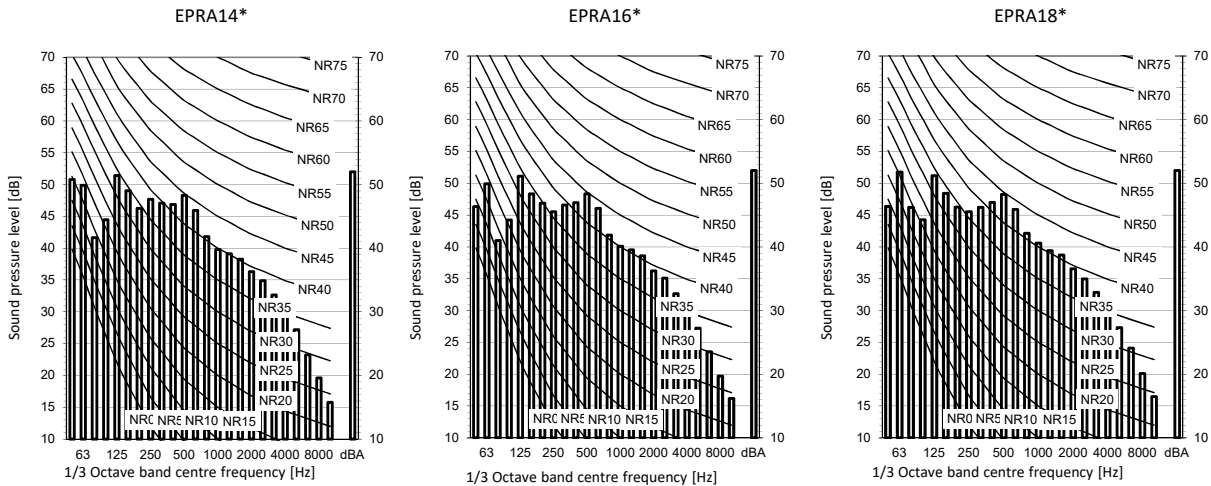
1. Data is valid at free field condition.
Measured in a semi-anechoic chamber
2. Data is valid at nominal operation condition.
3. dBA = A-weighted sound pressure level (A scale according to IEC).
4. Reference acoustic pressure 0 dB = 20 μPa
5. If the sound is measured under actual installation conditions,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



Measuring location (discharge side)

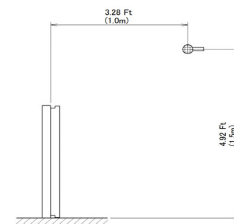
3D126758-1

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

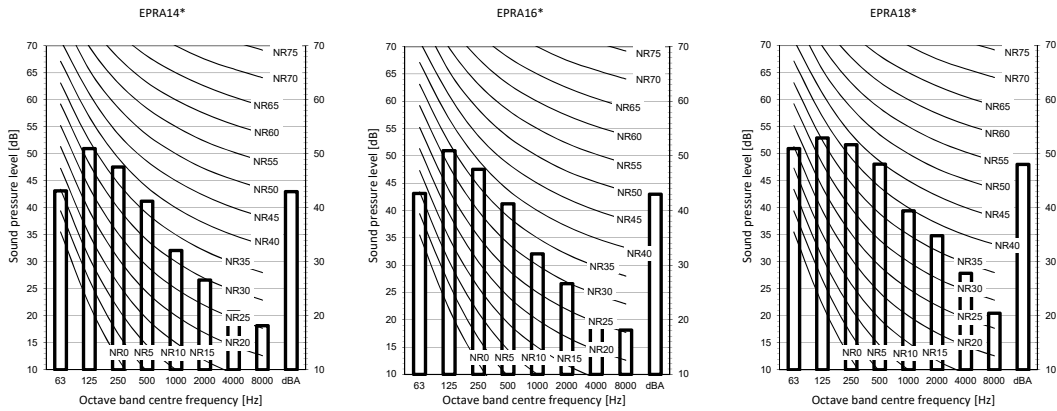
7 Sound data

7 - 2 Sound Pressure Spectrum - Heating

EPRA014-018DV

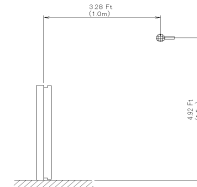
EPRA014-018DW

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.



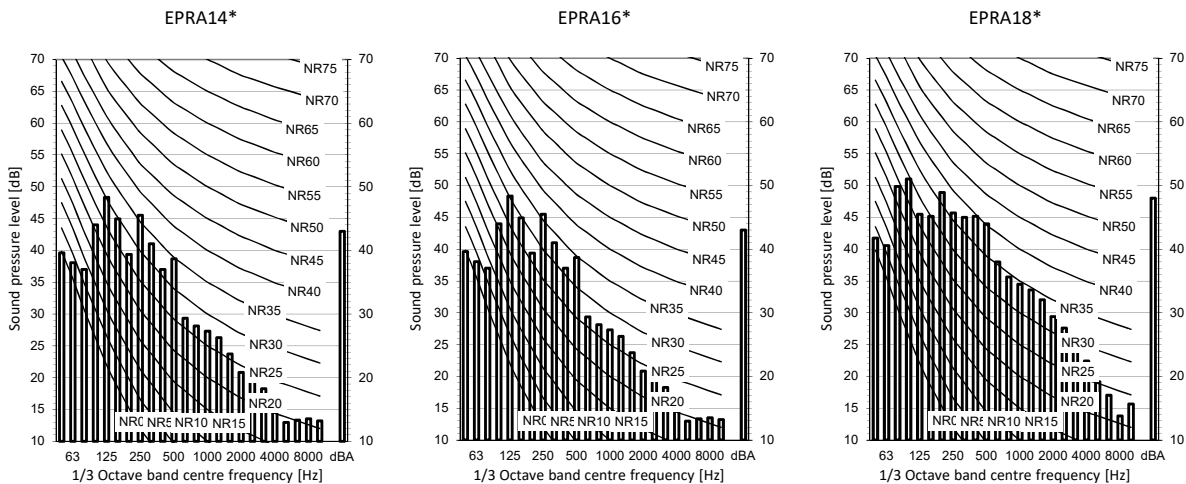
		Day			Night		
		Sound power level [dB]			Sound power level [dB]		
Day	Night	EPRA14*	EPRA16*	EPRA18*	EPRA14*	EPRA16*	EPRA18*
Default	Low noise level -2-	60,2	60,2	60,2	53,7	53,7	53,7
Low noise level -2-	Low noise level -3-	53,7	53,7	53,7	49,5	49,5	49,5

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

3D125215A-1

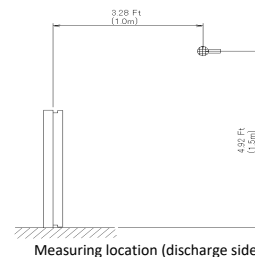
EPRA014-018DV

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

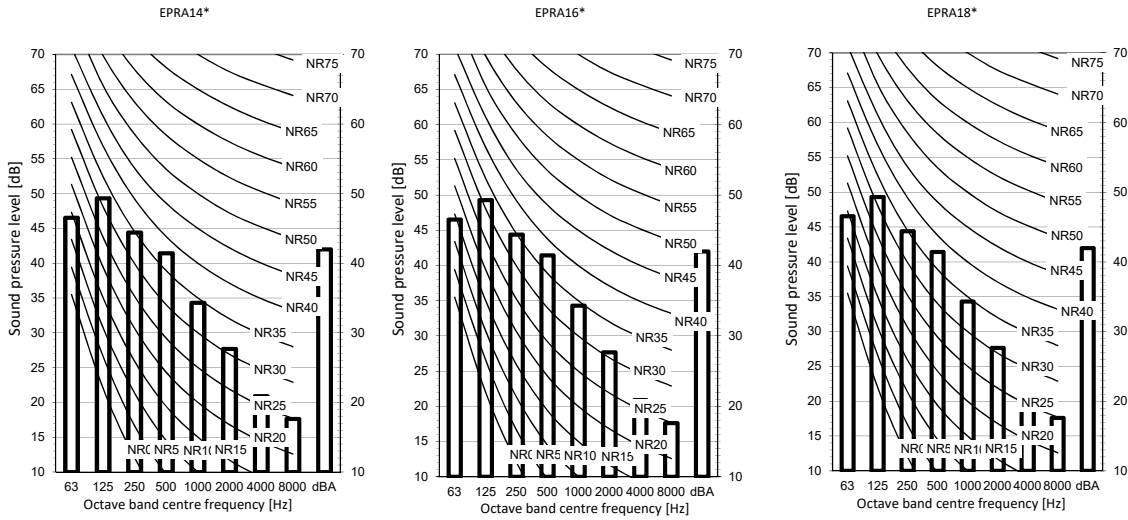
7 Sound data

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)

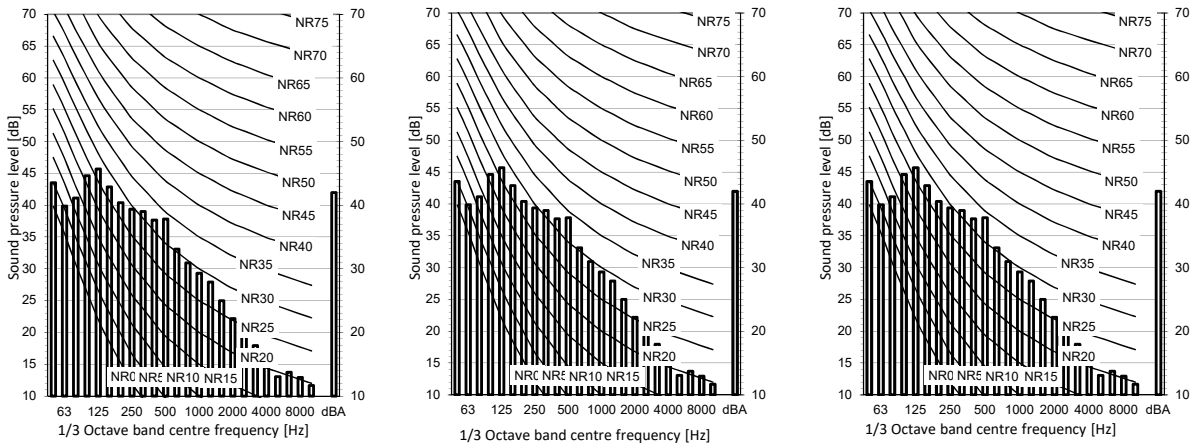
3D125214-1

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)

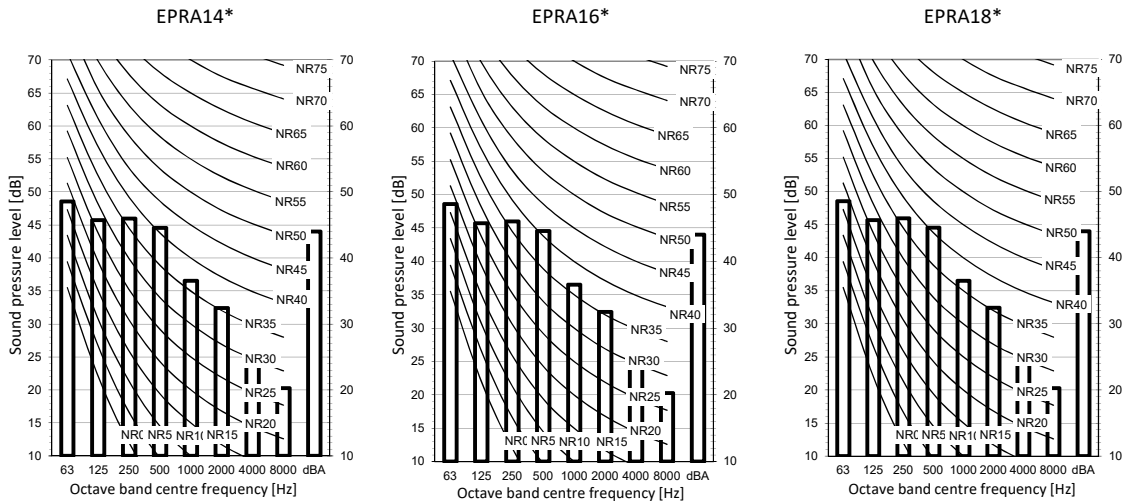
3D125214-2

7 Sound data

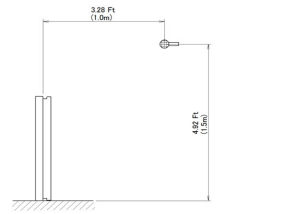
7 - 3 Sound Pressure Spectrum Quiet Mode

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.

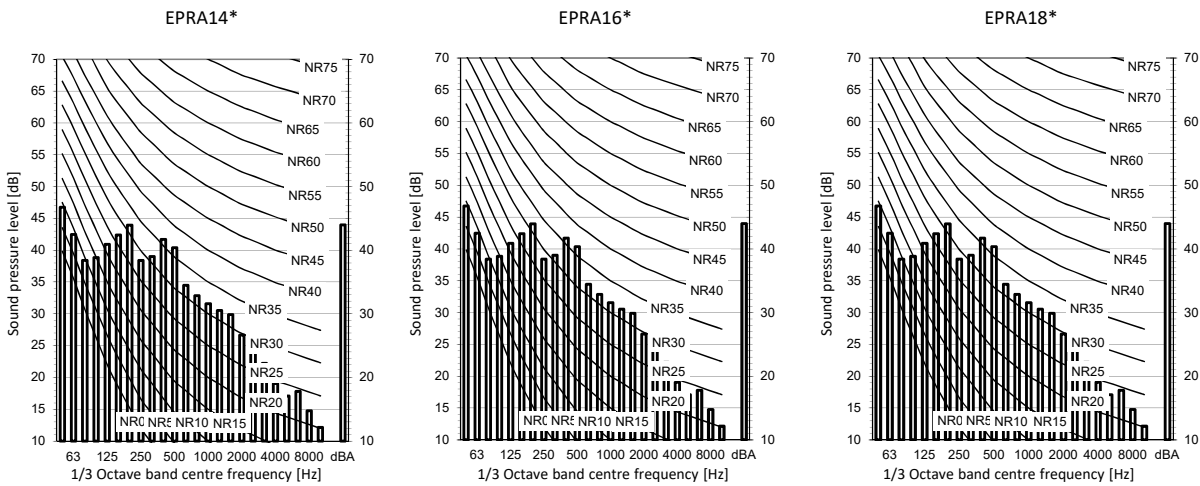


Measuring location (discharge side)

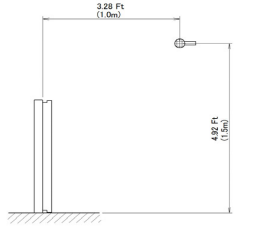
3D126757-1

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

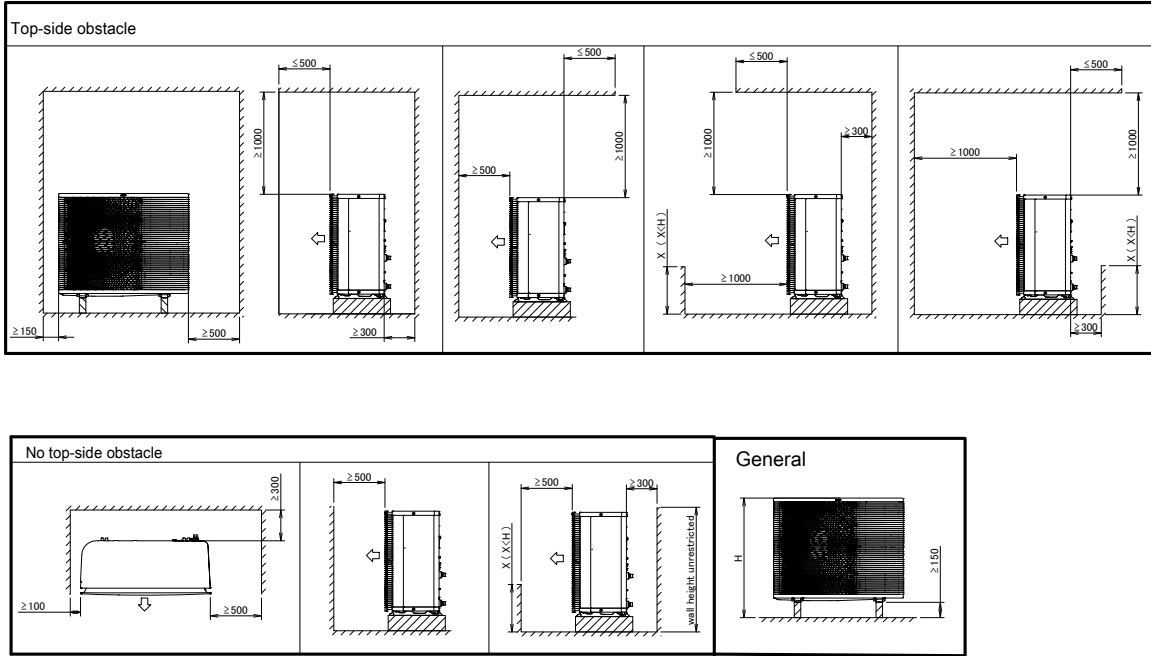
8 Installation

8 - 1 Installation Method

8

EPRA014-018DV
EPRA014-018DW

Minimum space for air passage

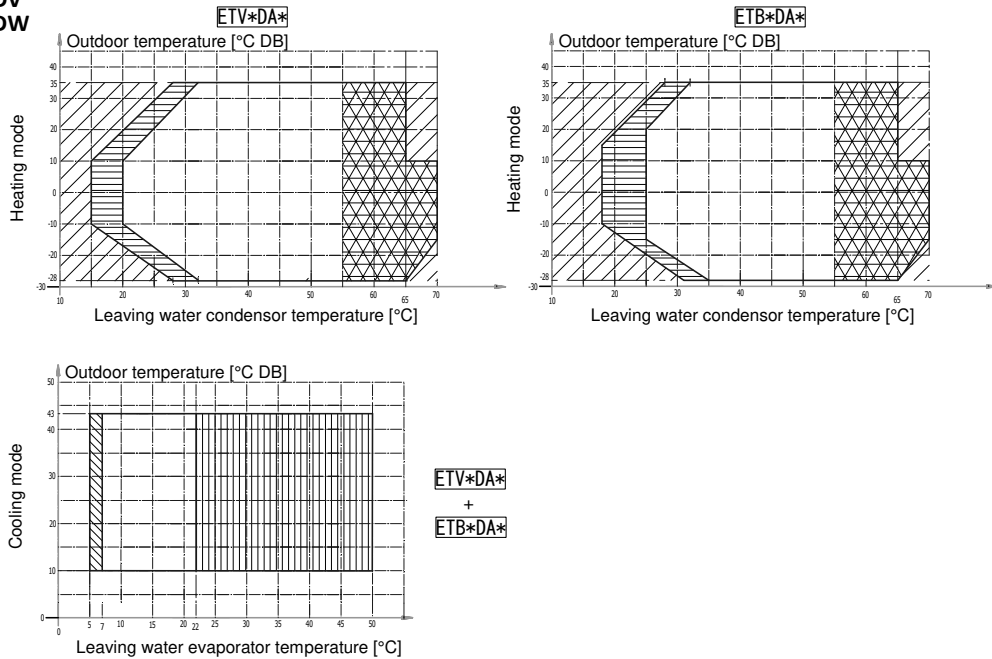


3D124412

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 $\Delta T = -10$ °C ($\Delta T = \text{outlet temperature} - \text{inlet temperature}$)
- In case valve kit -AFVALVE1- is part of the system, then the minimum setpoint is -7°°C.

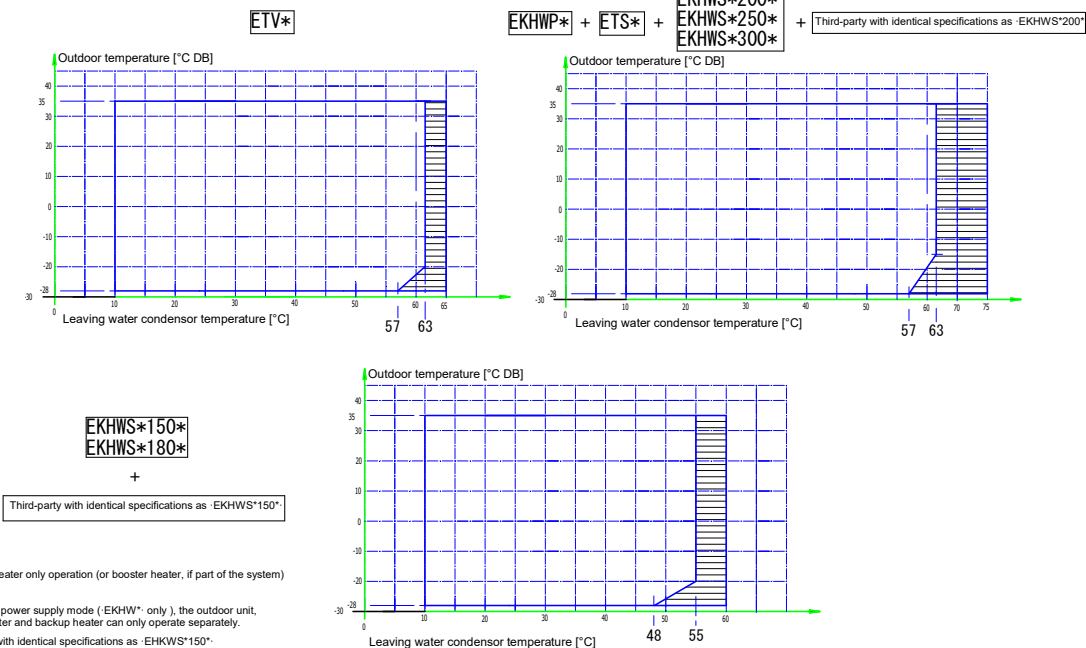
Remark

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

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 (EKHWS* only), the outdoor unit, booster heater and backup heater can only operate separately.
2. Third-party with identical specifications as EKHWS*150*
Coil surface > 1.05 m²
Tank thermostat: top part of heat pump coil. Small overlap.
3. Third-party with identical specifications as EKHWS*200*
Coil surface > 1.8 m²
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

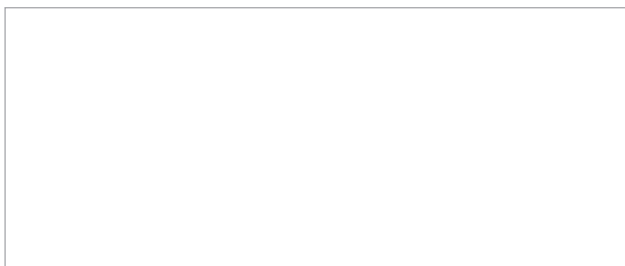
Indoor unit	ETV*16S18DA*		ETV*16S23DA*		ETSH16P30DA		ETSHB16P30DA		ETSX16P30DA		ETSXB16P30DA	
Outdoor unit	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3	EPRA*DAW1	EPRA*DAV3
Application	Average climate		Average climate		Average climate							
Domestic 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 _{wh} [°C]	52,5		52,5		47,0							
P _{es} [W]	34,2	42,9	49,2	58,5	49,0							
V ₄₀ [l]	240		298		149,0							
η _{wh} [%]	109,5	105,7	108,3	106,6	101							
COP _{DHW} [l]	2,62	2,51	2,61	2,55	2,38							

Indoor unit	ETSH16P50DA		ETSHB16P50DA		ETSX16P50DA		ETSXB16P50DA		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 _{wh} [°C]	47,0		48,0		47,0		48,0		
P _{es} [W]	51,0		57,1	57,6	51,0		57,1	57,6	
V ₄₀ [l]	237,2		215,7	211,0	237,2		215,7	211,0	
η _{wh} [%]	111		115		108		111		
COP _{DHW} [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_{wtr} Reference Domestic hot water temperature [°C] According to EN16147.
- P_{es} Standby power input According to EN16147.
- V_{eq40} Equivalent domestic hot water volume [l] According to EN16147.
- η_{wh} Efficiency [%] Domestic hot water heating mode According to EN16147.
- COP_{DHW} Domestic hot water COP

4D126945A



03/2020

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.