

Summary of	DAIKIN ALTHERMA 3 H HT 16KW (180L)	Reg. No.	011-1W0357
Certificate Holder	-		
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400
City	Oostende	Country	Belgium
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Danish Technological Institute (DTI)		
Subtype title	DAIKIN ALTHERMA 3 H HT 16KW (180L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	4.2 kg		
Certification Date	07.02.2020		



## **Model: EPRA16DV / ETBH16D6V**

General Data	
Power supply	1x230V 50Hz

#### Heating

EN 14511-4	
Chutting off the heat transfer medium flour	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh



## **Model: EPRA16DV / ETBH16D9W**

General Data	
Power supply	1x230V 50Hz

#### Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh



## **Model: EPRA16DW / ETBH16D6V**

General Data	
Power supply	3x400V 50Hz

#### Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



# $$\operatorname{\textit{Page}}\ 10$$ of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

5.50 kW	5.20 kW
6.97	5.97
1.00	1.00
10.72 kW	12.50 kW
2.97	2.12
11.80 kW	12.50 kW
2.84	2.12
35 °C	55 °C
31 W	31 W
33 W	33 W
42 W	42 W
0 W	0 W
electrical	electrical
6.00 kW	6.00 kW
5765 kWh	7236 kWh
	6.97  1.00  10.72 kW  2.97  11.80 kW  2.84  35 °C  31 W  33 W  42 W  0 W  electrical  6.00 kW



## **Model: EPRA16DW / ETBH16D9W**

General Data	
Power supply	3x400V 50Hz

#### Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh



## **Model: EPRA16DV / ETBX16D6V**

General Data	
Power supply	1x230V 50Hz

#### Heating

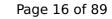
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

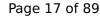
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00





Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

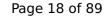
#### Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.34 m³/h
Cooling capacity	7.88
EER	2.69

#### EN 14825





This information was generated by the HP KEYMARK database on 17 Dec 202		
	+7°C/+12°C	
Pdesignc	7.88 kW	
SEER	4.08	
Pdc Tj = 35°C	7.88 kW	
EER Tj = 35°C	2.69	
Pdc Tj = 30°C	5.92 kW	
EER Tj = 30°C	3.69	
Cdc	1.0	
Pdc Tj = 25°C	5.09 kW	
EER Tj = 25°C	4.63	
Cdc	1.0	
Pdc Tj = 20°C	5.13 kW	
EER Tj = 20°C	5.61	
Cdc	1.0	
Poff	21 W	
РТО	41 W	
PSB	21 W	
РСК	o w	
Annual energy consumption Qce	1158 kWh	



## **Model: EPRA16DV / ETBX16D9W**

General Data	
Power supply	3x400V 50Hz

#### Heating

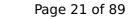
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00





 $$\operatorname{Page}\ 21$$  of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

#### Cooling





EN 14511-2		
	+7°C/+12°C	
El input	2.54 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

#### EN 14825





This information was generated by the HP KEYMARK database on 17 Dec 20	
	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	21 W
РТО	41 W
PSB	21 W
РСК	o w
Annual energy consumption Qce	1158 kWh



## **Model: EPRA16DW / ETBX16D6V**

General Data	
Power supply	3x400V 50Hz

#### Heating

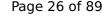
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00





# $$\operatorname{\textit{Page}}\xspace$ 26 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

## Cooling





 $$\operatorname{\textit{Page}}\xspace$  27 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2	
	+7°C/+12°C
El input	3.32 kW
Indoor water flow rate	1.34 m³/h
Cooling capacity	7.88
EER	2.69

#### EN 14825





This information was generated by the Hir KE	+7°C/+12°C
Pdesignc	7.88 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
РТО	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh



## **Model: EPRA16DW / ETBX16D9W**

General Data		
Power supply	3x400V 50Hz	

#### Heating

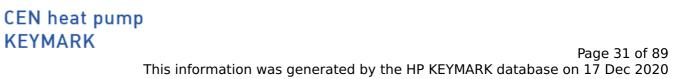
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



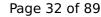
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

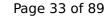
#### Cooling





EN 14511-2		
	+7°C/+12°C	
El input	3.32 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

#### EN 14825





This information was generated by the HP KE	
	+7°C/+12°C
Pdesignc	7.88 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = $30^{\circ}$ C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh

## Model: EPRA16DV / ETVH16S18D6V(G)

General Data	
Power supply	1x230V 50Hz

#### Heating

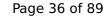
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	54 dB(A)	54 dB(A)	

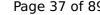
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	177 %	140 %	
Prated	13.00 kW	13.00 kW	
SCOP	4.51	3.58	
Tbiv	-7 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.10 kW	11.20 kW	
COP Tj = -7°C	3.12	2.47	
Cdh	1.00	1.00	
Pdh Tj = +2°C	6.70 kW	6.90 kW	
COP Tj = +2°C	4.44	3.56	
Cdh	1.00	1.00	
Pdh Tj = +7°C	5.70 kW	6.90 kW	
COP Tj = +7°C	5.84	4.44	
Cdh	1.00	1.00	





	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  37 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.62	
Heating up time	1:07 h:min	
Standby power input	34.2 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



## Model: EPRA16DV / ETVH16S18D9W(G)

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





# $$\operatorname{Page}\ 41$$ of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.62	
Heating up time	1:07 h:min	
Standby power input	34.2 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



## Model: EPRA16DW / ETVH16S18D6V(G)

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00

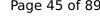
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





 $$\operatorname{Page}\ 45$$  of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	106 %	
СОР	2.51	
Heating up time	1:07 h:min	
Standby power input	42.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



## Model: EPRA16DW / ETVH16S18D9W(G)

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	106 %	
СОР	2.51	
Heating up time	1:07 h:min	
Standby power input	42.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



## Model: EPRA16DV / ETVX16S18D6V(G)

General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

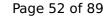
EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

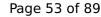




 $$\operatorname{\textit{Page}}\xspace$  52 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

## Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.34 m³/h
Cooling capacity	7.88
EER	2.69

#### EN 14825





	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh

## Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	110 %
СОР	2.62
Heating up time	1:07 h:min
Standby power input	34.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



## Model: EPRA16DV / ETVX16S18D9W(G)

General Data	
Power supply	1x230V 50Hz

## Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



 $$\operatorname{\textit{Page}}\xspace$  57 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00

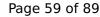
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

## Cooling





EN 14511-2		
	+7°C/+12°C	
El input	2.54 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

#### EN 14825





This information was generated by the Hir KE	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	21 W
РТО	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 61 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.62	
Heating up time	1:07 h:min	
Standby power input	34.2 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



## Model: EPRA16DW / ETVX16S18D6V(G)

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

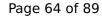
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.00 kW	7.24 kW	
El input	1.23 kW	2.47 kW	
СОР	5.00	2.93	
Indoor water flow rate	1.55 m³/h	0.89 m³/h	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00

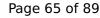
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

## Cooling





EN 14511-2		
	+7°C/+12°C	
El input	3.32 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

#### EN 14825





	+7°C/+12°C
Pdesignc	7.88 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh

## Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	110 %
СОР	2.62
Heating up time	1:07 h:min
Standby power input	34.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



## Model: EPRA16DW / ETVX16S18D9W(G)

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

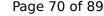
EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com

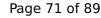




 $$\operatorname{\textit{Page}}\xspace$  70 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

## Cooling





EN 14511-2		
	+7°C/+12°C	
El input	3.32 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

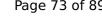
#### EN 14825





This information was generated by the Fill KE	+7°C/+12°C
Pdesignc	7.88 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh

### Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  73 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.62	
Heating up time	1:07 h:min	
Standby power input	34.2 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



# Model: EPRA16DV / ETVZ16S18D6V(G)

General Data		
Power supply	1x230V 50Hz	

## Heating

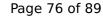
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	
Indoor water flow rate	1.55 m³/h	0.89 m³/h	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

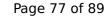
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00





Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	110 %	
СОР	2.62	
Heating up time	1:07 h:min	
Standby power input	34.2 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	

# Model: EPRA16DV / ETVZ16S18D9W(G)

General Data		
Power supply	1x230V 50Hz	

## Heating

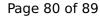
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

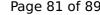
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00





Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 81 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	110 %
СОР	2.62
Heating up time	1:07 h:min
Standby power input	34.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



# Model: EPRA16DW / ETVZ16S18D6V(G)

General Data		
Power supply	3x400V 50Hz	

## Heating

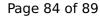
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	5.00	2.93
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

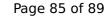
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00





Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	6.00 kW	6.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	106 %
СОР	2.51
Heating up time	1:07 h:min
Standby power input	42.9 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



# Model: EPRA16DW / ETVZ16S18D9W(G)

General Data		
Power supply	3x400V 50Hz	

## Heating

EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

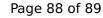
EN 14511-2				
	Low temperature	Medium temperature		
Heat output	9.00 kW	7.24 kW		
El input	1.23 kW	2.47 kW		
СОР	5.00	2.93		
Indoor water flow rate	1.55 m³/h	0.89 m³/h		



 $$\operatorname{\textit{Page}}\xspace$  87 of 89 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44 dB(A)	44 dB(A)	
Sound power level outdoor	54 dB(A)	54 dB(A)	

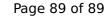
EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	176 %	140 %	
Prated	13.00 kW	13.00 kW	
SCOP	4.48	3.57	
Tbiv	-7 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.72 kW	11.10 kW	
COP Tj = -7°C	2.97	2.43	
Cdh	1.00	1.00	
Pdh Tj = +2°C	6.87 kW	6.70 kW	
COP Tj = +2°C	4.94	3.52	
Cdh	1.00	1.00	
Pdh Tj = +7°C	6.10 kW	6.50 kW	
COP Tj = +7°C	5.75	4.54	
Cdh	1.00	1.00	





Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	106 %	
СОР	2.51	
Heating up time	1:07 h:min	
Standby power input	42.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	