

This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	DAIKIN ALTHERMA 3 H HT 18KW (180L)	Reg. No.	011-1W0361
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 18KW (180L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	4.2 kg		
Certification Date	07.02.2020		

Model: EPRA18DV / ETBH16D6V

General Data

Power supply	1x230V 50Hz
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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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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	6.00 kW	6.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Model: EPRA18DV / ETBH16D9W

General Data

Power supply	1x230V 50Hz
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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
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COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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EN 12102-1

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EN 14825

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SCOP	4.51	3.58
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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

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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	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: EPRA18DW / ETBH16D6V

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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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
η_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

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
PTO	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

Model: EPRA18DW / 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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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Pdh Tj = +7°C	6.10 kW	6.50 kW
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COP Tj = 12°C	6.97	5.97
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COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
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WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	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: EPRA18DV / 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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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
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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	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	5649 kWh	7134 kWh

Cooling

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Model: EPRA18DV / ETBX16D9W

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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Pdh Tj = 12°C	6.00 kW	6.20 kW
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Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
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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	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Model: EPRA18DW / ETBX16D6V

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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	Low temperature	Medium temperature
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Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825

	Low temperature	Medium temperature
η_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

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Pdh Tj = 12°C	5.50 kW	5.20 kW
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Cdh	1.00	1.00
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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
PTO	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

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	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Model: EPRA18DW / 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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

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	Low temperature	Medium temperature
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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

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Poff	31 W	31 W
PTO	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

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EN 14511-2

	+7°C/+12°C
El input	3.32 kW
Indoor water flow rate	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
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C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Model: EPRA18DV / ETVH16S18D6V(G)

General Data

Power supply	1x230V 50Hz
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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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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COP Tj = +2°C	4.44	3.56
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Cdh	1.00	1.00
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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	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	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DV / 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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DW / ETVH16S18D6V(G)

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	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 l

Model: EPRA18DW / 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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	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 l

Model: EPRA18DV / 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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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	6.00 kW	6.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Cooling

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DV / 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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 14511-2

	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.17
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Q _{ce}	1266 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DW / ETVX16S18D6V(G)

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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

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	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DW / 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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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

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	1.49 m³/h
Cooling capacity	8.86
EER	2.68

EN 14825

This information was generated by the HP KEYMARK database on 17 Dec 2020

	+7°C/+12°C
P _{designc}	8.80 kW
SEER	4.07
P _{dc} T _j = 35°C	8.86 kW
EER T _j = 35°C	2.68
P _{dc} T _j = 30°C	6.61 kW
EER T _j = 30°C	3.72
C _{dc}	1.0
P _{dc} T _j = 25°C	5.12 kW
EER T _j = 25°C	4.68
C _{dc}	1.0
P _{dc} T _j = 20°C	5.31 kW
EER T _j = 20°C	5.81
C _{dc}	1.0
P _{off}	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Q _{ce}	1296 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DV / 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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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	6.00 kW	6.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DV / ETVZ16S18D9W(G)

General Data

Power supply	1x230V 50Hz
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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
COP	5.00	3.01
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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

Domestic Hot Water (DHW)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	110 %
COP	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 l

Model: EPRA18DW / ETVZ16S18D6V(G)

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	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 l

Model: EPRA18DW / ETVZ16S18D9W(G)

General Data

Power supply	3x400V 50Hz
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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
COP	5.00	2.93
Indoor water flow rate	1.55 m ³ /h	0.89 m ³ /h

Average Climate

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
η_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

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
PTO	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)

Average Climate

This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency η_{DHW}	106 %
COP	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 l