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Summary of	DAIKIN ALTHERMA 3 H MT F 08-12KW (500L)	Reg. No.	011-1W0502
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		
Subtype title	DAIKIN ALTHERMA 3 H MT F 08-12KW (500L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	3.25 kg		
Certification Date	24.11.2021		
Testing basis	HP KEYMARK certification scheme rules rev. 9		

## Model: EPRA08EV3 / ETSH(B)12P50E

Configure model	
Model name	EPRA08EV3 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.15 kW
Cooling capacity	6.81
EER	3.17

**EN 14825**

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	<b>+7°C/+12°C</b>
P <sub>designc</sub>	6.5 kW
SEER	5.38
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.81 kW
EER T <sub>j</sub> = 35°C	3.17
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.00 kW
EER T <sub>j</sub> = 30°C	4.37
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.01 kW
EER T <sub>j</sub> = 25°C	6.58
C <sub>dc</sub>	0.94
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.57 kW
EER T <sub>j</sub> = 20°C	8.00
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	725 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	184 %	134 %
Prated	8.3 kW	8.5 kW
SCOP	4.69	3.41
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

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Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	7.5 kW	7.6 kW
COP Tj = Tbiv	3.10	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.93
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.54 kW
Annual energy consumption Qhe	3659 kWh	5142 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	3:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

# Model: EPRA08EW1 / ETSH(B)12P50E

Configure model	
Model name	EPRA08EW1 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

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

## Cooling



**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.08 kW
Cooling capacity	6.81
EER	3.28

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	6.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.81 kW
EER T <sub>j</sub> = 35°C	3.28
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.00 kW
EER T <sub>j</sub> = 30°C	4.52
C <sub>dc</sub>	0.97
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.01 kW
EER T <sub>j</sub> = 25°C	6.66
C <sub>dc</sub>	0.94
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.57 kW
EER T <sub>j</sub> = 20°C	7.98
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	719 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	190 %	138 %
Prated	8.3 kW	8.5 kW
SCOP	4.81	3.52
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

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Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	7.5 kW	7.6 kW
COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.01
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.54 kW
Annual energy consumption Qhe	3561 kWh	4993 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	4:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA10EV3 / ETSH(B)12P50E

Configure model	
Model name	EPRA10EV3 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.66 kW
Cooling capacity	7.97
EER	3.00

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7.5 kW
SEER	5.34
P <sub>dc</sub> T <sub>j</sub> = 35°C	7.97 kW
EER T <sub>j</sub> = 35°C	3.00
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.76 kW
EER T <sub>j</sub> = 30°C	4.28
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.63 kW
EER T <sub>j</sub> = 25°C	6.31
C <sub>dc</sub>	0.95
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.63 kW
EER T <sub>j</sub> = 20°C	8.37
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	843 kWh

## Average Climate



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	8.3 kW	8.5 kW
SCOP	4.71	3.43
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3637 kWh	5120 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	5:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA10EW1 / ETSH(B)12P50E

### Configure model

Model name	EPRA10EW1 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

### General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

### EN 14511-4

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

## Cooling

### EN 14511-2

	<b>+7°C/+12°C</b>
El input	2.57 kW
Cooling capacity	7.97
EER	3.10

### EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	7.97 kW
EER T <sub>j</sub> = 35°C	3.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.76 kW
EER T <sub>j</sub> = 30°C	4.43
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.63 kW
EER T <sub>j</sub> = 25°C	6.47
C <sub>dc</sub>	0.95
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.63 kW
EER T <sub>j</sub> = 20°C	8.35
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	831 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	191 %	138 %
Prated	8.3 kW	8.5 kW
SCOP	4.84	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.05
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3539 kWh	4970 kWh

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	6:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA12EV3 / ETSH(B)12P50E

Configure model	
Model name	EPRA12EV3 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	8.5 kW
SEER	5.31
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.62 kW
EER T <sub>j</sub> = 35°C	2.91
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.68 kW
EER T <sub>j</sub> = 30°C	4.17
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.04 kW
EER T <sub>j</sub> = 25°C	6.13
C <sub>dc</sub>	0.96
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.69 kW
EER T <sub>j</sub> = 20°C	8.75
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	961 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	186 %	134 %
Prated	8.3 kW	8.5 kW
SCOP	4.71	3.43
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3637 kWh	5120 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	7:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA12EW1 / ETSH(B)12P50E

Configure model	
Model name	EPRA12EW1 / ETSH(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

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

### Cooling



**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.86 kW
Cooling capacity	8.62
EER	3.01

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	8.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.62 kW
EER T <sub>j</sub> = 35°C	3.01
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.68 kW
EER T <sub>j</sub> = 30°C	4.32
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.04 kW
EER T <sub>j</sub> = 25°C	6.34
C <sub>dc</sub>	0.96
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.69 kW
EER T <sub>j</sub> = 20°C	8.72
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	943 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	191 %	138 %
Prated	8.3 kW	8.5 kW
SCOP	4.84	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.05
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3539 kWh	4970 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	8:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA08EV3 / ETSX(B)12P50E

Configure model	
Model name	EPRA08EV3 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

### EN 14511-2

	<b>+7°C/+12°C</b>
El input	2.15 kW
Cooling capacity	6.81
EER	3.17

### EN 14825

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	6.5 kW
SEER	5.38
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.81 kW
EER T <sub>j</sub> = 35°C	3.17
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.00 kW
EER T <sub>j</sub> = 30°C	4.37
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.01 kW
EER T <sub>j</sub> = 25°C	6.58
C <sub>dc</sub>	0.94
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.57 kW
EER T <sub>j</sub> = 20°C	8.00
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	725 kWh

## Average Climate



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	189 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.79	3.47
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	7.5 kW	7.6 kW
COP Tj = Tbiv	3.10	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.80	1.93
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.54 kW
Annual energy consumption Qhe	3582 kWh	5065 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	9:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

# Model: EPRA08EW1 / ETSX(B)12P50E

## Configure model

Model name	EPRA08EW1 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

### EN 14511-4

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

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.08 kW
Cooling capacity	6.81
EER	3.28

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	6.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	6.81 kW
EER T <sub>j</sub> = 35°C	3.28
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.00 kW
EER T <sub>j</sub> = 30°C	4.52
C <sub>dc</sub>	0.97
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.01 kW
EER T <sub>j</sub> = 25°C	6.66
C <sub>dc</sub>	0.94
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.57 kW
EER T <sub>j</sub> = 20°C	7.98
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	719 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	195 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.95	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	7.5 kW	7.6 kW
COP Tj = Tbiv	3.20	2.30
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.92 kW	6.96 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.90	2.01
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.38 kW	1.54 kW
Annual energy consumption Qhe	3462 kWh	4894 kWh

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	10:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA10EV3 / ETSX(B)12P50E

Configure model	
Model name	EPRA10EV3 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.66 kW
Cooling capacity	7.97
EER	3.00

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7.5 kW
SEER	5.34
P <sub>dc</sub> T <sub>j</sub> = 35°C	7.97 kW
EER T <sub>j</sub> = 35°C	3.00
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.76 kW
EER T <sub>j</sub> = 30°C	4.28
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.63 kW
EER T <sub>j</sub> = 25°C	6.31
C <sub>dc</sub>	0.95
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.63 kW
EER T <sub>j</sub> = 20°C	8.37
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	843 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3560 kWh	5043 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	11:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

# Model: EPRA10EW1 / ETSX(B)12P50E

## Configure model

Model name	EPRA10EW1 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

### EN 14511-4

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

## Cooling



**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.57 kW
Cooling capacity	7.97
EER	3.10

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	7.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	7.97 kW
EER T <sub>j</sub> = 35°C	3.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	5.76 kW
EER T <sub>j</sub> = 30°C	4.43
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	3.63 kW
EER T <sub>j</sub> = 25°C	6.47
C <sub>dc</sub>	0.95
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.63 kW
EER T <sub>j</sub> = 20°C	8.35
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	831 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	196 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.98	3.60
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.05
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3440 kWh	4871 kWh

## Domestic Hot Water (DHW)

### Average Climate

This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	12:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

## Model: EPRA12EV3 / ETSX(B)12P50E

Configure model	
Model name	EPRA12EV3 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
COP	4.92	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	8.5 kW
SEER	5.31
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.62 kW
EER T <sub>j</sub> = 35°C	2.91
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.68 kW
EER T <sub>j</sub> = 30°C	4.17
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.04 kW
EER T <sub>j</sub> = 25°C	6.13
C <sub>dc</sub>	0.96
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.69 kW
EER T <sub>j</sub> = 20°C	8.75
C <sub>dc</sub>	0.91
P <sub>off</sub>	25 W
PTO	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	961 kWh

## Average Climate



### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
PTO	24 W	24 W
PSB	21 W	21 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3560 kWh	5043 kWh

## Domestic Hot Water (DHW)

### Average Climate

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	128 %
COP	3.10
Heating up time	13:13 h:min
Standby power input	32.7 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l

# Model: EPRA12EW1 / ETSX(B)12P50E

## Configure model

Model name	EPRA12EW1 / ETSX(B)12P50E
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

## General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
COP	5.10	3.05

### EN 14511-4

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

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	2.86 kW
Cooling capacity	8.62
EER	3.01

**EN 14825**

This information was generated by the HP KEYMARK database on 18 Mar 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	8.5 kW
SEER	5.41
P <sub>dc</sub> T <sub>j</sub> = 35°C	8.62 kW
EER T <sub>j</sub> = 35°C	3.01
P <sub>dc</sub> T <sub>j</sub> = 30°C	6.68 kW
EER T <sub>j</sub> = 30°C	4.32
C <sub>dc</sub>	0.98
P <sub>dc</sub> T <sub>j</sub> = 25°C	4.04 kW
EER T <sub>j</sub> = 25°C	6.34
C <sub>dc</sub>	0.96
P <sub>dc</sub> T <sub>j</sub> = 20°C	2.69 kW
EER T <sub>j</sub> = 20°C	8.72
C <sub>dc</sub>	0.91
P <sub>off</sub>	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	943 kWh

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	47.3 dB(A)	47.3 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	196 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.98	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 18 Mar 2022

Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.14 kW	8.31 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.05
WTOL	35 °C	55 °C
Poff	27 W	27 W
PTO	24 W	24 W
PSB	27 W	27 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW
Annual energy consumption Qhe	3440 kWh	4871 kWh

## Domestic Hot Water (DHW)

### Average Climate



This information was generated by the HP KEYMARK database on 18 Mar 2022

<b>EN 16147</b>	
Declared load profile	L
Efficiency $\eta_{DHW}$	131 %
COP	3.17
Heating up time	14:13 h:min
Standby power input	32.1 W
Reference hot water temperature	44.5 °C
Mixed water at 40°C	246.0 l