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

#### **Login**

Summary of	DAIKIN ALTHERMA 3 H MT F 12KW (230L)	Reg. No.	011-1W0505
Certificate Holder			
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	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 12KW (230L)		
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: EPRA12EV3 / ETVH12S23E(6V/9W)

Configure model		
Model name	EPRA12EV3 / ETVH12S23E(6V/9W)	
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
СОР	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	
+7°C/+12°C	
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

#### EN 14825





	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
PTO	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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 = $+7^{\circ}$ 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	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o w	o 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)



EN 16147	
Declared load profile	L
Efficiency ηDHW	126 %
СОР	2.96
Heating up time	2:14 h:min
Standby power input	44.8 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 I



## Model: EPRA12EV3 / ETVH12SU23E6V

Configure model		
Model name	EPRA12EV3 / ETVH12SU23E6V	
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	
СОР	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

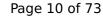
## Cooling





EN 14511-2	
+7°C/+12°C	
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

#### EN 14825





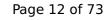
This information was generated by the Fill RE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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 = $+7^{\circ}$ C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0

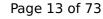
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Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	126 %	
СОР	2.96	
Heating up time	2:14 h:min	
Standby power input	44.8 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298	



## Model: EPRA12EV3 / ETVX12S23E(6V/9W)

Configure model		
Model name EPRA12EV3 / ETVX12S23E(6V/9W)		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

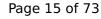
General Data			
Power supply 1x230V 50Hz			

### Heating

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

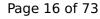
## Cooling





EN 14511-2	
+7°C/+12°C	
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

#### EN 14825





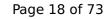
This information was generated by the Fill RE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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

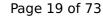
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Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	126 %	
СОР	2.96	
Heating up time	2:14 h:min	
Standby power input	44.8 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298 I	



## Model: EPRA12EV3 / ETVZ12S23E(6V/9W)

Configure model		
Model name	EPRA12EV3 / ETVZ12S23E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

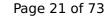
General Data		
Power supply	1x230V 50Hz	

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.25 kW	2.63 kW
СОР	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	
	+7°C/+12°C
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

#### EN 14825

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This information was generated by the Fir KE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Qce	961 kWh



EN 12102-1			
	Low temperature	Medium temperature	
Sound power level indoor	44.0 dB(A)	44.0 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 = $+7^{\circ}$ 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	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o w	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	126 %	
СОР	2.96	
Heating up time	2:14 h:min	
Standby power input	44.8 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298	



## Model: EPRA12EW1 / ETVH12S23E(6V/9W)

Configure model			
Model name EPRA12EW1 / ETVH12S23E(6V/9W)			
Application Heating + DHW + low temp			
Jnits Indoor + Outdoor			
Climate Zone	n/a		
Reversibility	No		
Cooling mode application (optional)	n/a		

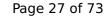
General Data		
Power supply	3x400V 50Hz	

### Heating

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

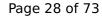
## Cooling





EN 14511-2			
+7°C/+12°C			
El input	2.86 kW		
Cooling capacity	8.62		
EER	3.01		

#### EN 14825





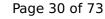
This information was generated by the HP KETMARK database on 16 Mar 2		
	+7°C/+12°C	
Pdesignc	8.5 kW	
SEER	5.41	
Pdc Tj = 35°C	8.62 kW	
EER Tj = 35°C	3.01	
Pdc Tj = 30°C	6.68 kW	
EER Tj = 30°C	4.32	
Cdc	0.98	
Pdc Tj = 25°C	4.04 kW	
EER Tj = 25°C	6.34	
Cdc	0.96	
Pdc Tj = 20°C	2.69 kW	
EER Tj = 20°C	8.72	
Cdc	0.91	
Poff	31 W	
РТО	o w	
PSB	31 W	
РСК	o w	
Annual energy consumption Qce	943 kWh	



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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 = $-7^{\circ}$ C	7.5 kW	7.6 kW
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

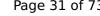
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Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	8.13	6.16
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.86	2.05
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.86	2.05
WTOL	35 °C	55 °C
Poff	27 W	27 W
РТО	24 W	24 W
PSB	27 W	27 W
PCK	o w	o 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)





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EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.05	
Heating up time	2:14 h:min	
Standby power input	43.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298 I	



## **Model: EPRA12EW1 / ETVH12SU23E6V**

Configure model		
Model name	EPRA12EW1 / ETVH12SU23E6V	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

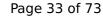
General Data		
Power supply	3x400V 50Hz	

### Heating

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

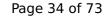
## Cooling





EN 14511-2		
	+7°C/+12°C	
El input	2.86 kW	
Cooling capacity	8.62	
EER	3.01	

#### EN 14825





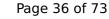
This information was generated by the Fill RE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
РТО	0 W
PSB	31 W
PCK	o w
Annual energy consumption Qce	943 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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 = $-7^{\circ}$ C	7.5 kW	7.6 kW
$COP Tj = -7^{\circ}C$	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
$COP Tj = +7^{\circ}C$	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0

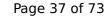
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	27 W	27 W
PCK	o w	o 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)





EN 16147	
Declared load profile	
	L
Efficiency ηDHW	130 %
СОР	3.05
Heating up time	2:14 h:min
Standby power input	43.9 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 I

## Model: EPRA12EW1 / ETVX12S23E(6V/9W)

Configure model		
Model name	EPRA12EW1 / ETVX12S23E(6V/9W)	
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	

## Heating

EN 14511-2		
Low temperature Medium temperature		Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
СОР	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	
	+7°C/+12°C
El input	2.86 kW
Cooling capacity	8.62
EER	3.01

## EN 14825





	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Qce	943 kWh



	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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





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	8.1 kW	8.3 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
РТО	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)





EN 16147	
Declared load profile	L
Efficiency ηDHW	130 %
СОР	3.05
Heating up time	2:14 h:min
Standby power input	43.9 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 I



## Model: EPRA12EW1 / ETVZ12S23E(6V/9W)

Configure model		
Model name	EPRA12EW1 / ETVZ12S23E(6V/9W)	
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	
СОР	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		
+7°C/+12°C		
El input	2.86 kW	
Cooling capacity	8.62	
EER	3.01	

### EN 14825





	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
PTO	o w
PSB	31 W
PCK	o w
Annual energy consumption Qce	943 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	27 W	27 W
PCK	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	130 %	
СОР	3.05	
Heating up time	2:14 h:min	
Standby power input	43.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298 I	



# Model: EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit

Configure model		
Model name EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit		
Application Heating + DHW + low temp		
Units Indoor + Outdoor		
Climate Zone n/a		
Reversibility Yes		
Cooling mode application (optional)	+7°C/12°C	

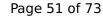
General Data		
Power supply	1x230V 50Hz	

## Heating

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

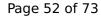
### Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.96 kW
Cooling capacity	8.62
EER	2.91

#### EN 14825



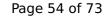


This information was generated by the Fir KE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Qce	961 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 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 = $+2^{\circ}$ 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





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o 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)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	126 %	
СОР	2.96	
Heating up time	2:14 h:min	
Standby power input	44.8 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298	

# Model: EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

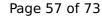
	General Data	
Power supply	3x400V 50Hz	

## Heating

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

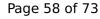
### Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.86 kW
Cooling capacity	8.62
EER	3.01

#### EN 14825





	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
PTO	0 W
PSB	31 W
PCK	0 W
Annual energy consumption Qce	943 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

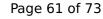
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	196 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.98	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0
	·	





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	27 W	27 W
PCK	o w	o 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)





EN 16147		
Declared load profile		
	L	
Efficiency ηDHW	130 %	
СОР	3.05	
Heating up time	2:14 h:min	
Standby power input	43.9 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298 I	

# Model: EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit

Configure model			
Model name EPRA12EV3 / ETVH12S23E(6V/9W) + cooling kit			
Application Heating + DHW + low temp			
Units Indoor + Outdoor			
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	+7°C/12°C		

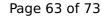
General Data		
Power supply	1x230V 50Hz	

## Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	6.17 kW	7.72 kW	
El input	1.25 kW	2.63 kW	
СОР	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		
+7°C/+12°C		
El input	2.96 kW	
Cooling capacity	8.62	
EER	2.91	

#### EN 14825





	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

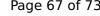
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = $+2^{\circ}$ C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
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





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	21 W	21 W
PCK	o 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)





## $$\operatorname{\textit{Page}}\xspace$ 67 of 73 This information was generated by the HP KEYMARK database on 18 Mar 2022

EN 16147		
Declared load profile	L	
Efficiency ηDHW	126 %	
СОР	2.96	
Heating up time	2:14 h:min	
Standby power input	44.8 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	298	



# Model: EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EW1 / ETVH12S23E(6V/9W) + cooling kit	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

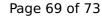
General Data		
Power supply 3x400V 50Hz		

## Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	6.17 kW	7.72 kW
El input	1.21 kW	2.53 kW
СОР	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		
	+7°C/+12°C	
El input	2.86 kW	
Cooling capacity	8.62	
EER	3.01	

#### EN 14825



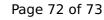


	TMARK database on 16 Mai 202
	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
РТО	o w
PSB	31 W
РСК	o w
Annual energy consumption Qce	943 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	53.0 dB(A)	53.0 dB(A)

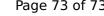
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	196 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.98	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = $+2$ °C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.37	4.61
Cdh Tj = +7 °C	1.0	1.0





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	8.1 kW	8.3 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
РТО	24 W	24 W
PSB	27 W	27 W
PCK	o 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)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	130 %
СОР	3.05
Heating up time	2:14 h:min
Standby power input	43.9 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 I