

Page 1 of 103

This information was generated by the HP KEYMARK database on 23 Jun 2022

Login

Summary of	DAIKIN ALTHERMA 3 H MT F+W 12KW (180L)	Reg. No.	011-1W0508	
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+W 12KW (180L)			
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 / ETBH12E(6V/9W)

Configure model		
Model name	EPRA12EV3 / ETBH12E(6V/9W)	
Application	Heating (medium 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





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

EN 14825





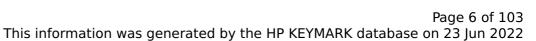
	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh





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
η_{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 Hir KETMAKK database on 25 Jun 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	8.1 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		
Annual energy consumption Qhe	3637 kWh	5120 kWh		

Model: EPRA12EV3 / ETBX12E(6V/9W)

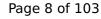
Configure model		
Model name	EPRA12EV3 / ETBX12E(6V/9W)	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

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	

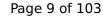
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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	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
η_{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



Page 11 of 103

This information was generated by the HP KEYMARK database on 23 Jun 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	8.1 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



Model: EPRA12EV3 / ETVH12S18E(6V/9W)

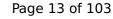
Configure model		
Model name	EPRA12EV3 / ETVH12S18E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	

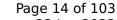
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Shutting off the heat transfer medium flow pa	
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





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

EN 14825



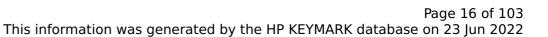


	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK	0 W
Annual energy consumption Qce	961 kWh



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
η_{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





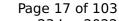
Pdh Tj = 12°C	6.6 kW	3.7 kW
COP Tj = 12°C	7.84	5.98
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	8.1 kW	8.3 kW
COP Tj = Tbiv	2.77	1.97
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.1 kW	8.3 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.77	1.97
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	24 W	24 W
PSB	21 W	21 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.0 kW	0.0 kW

3637 kWh

5120 kWh

Domestic Hot Water (DHW)

Annual energy consumption Qhe





EN 16147		
Declared load profile	L	
Efficiency ηDHW	117 %	
СОР	2.72	
Heating up time	1:57 h:min	
Standby power input	51.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	



Model: EPRA12EV3 / ETVH12SU18E6V

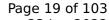
Configure model		
Model name EPRA12EV3 / ETVH12SU18E6V		
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	

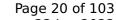
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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)

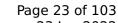
EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	134 %
Prated	8.3 kW	8.5 kW
SCOP	4.71	3.43
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = $+2$ °C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0





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	117 %	
СОР	2.72	
Heating up time	1:57 h:min	
Standby power input	51.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	

Model: EPRA12EV3 / ETVX12S18E(6V/9W)

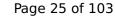
Configure model		
Model name	EPRA12EV3 / ETVX12S18E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

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	

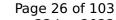
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	





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

EN 14825





j	+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)

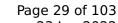
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0





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	117 %
СОР	2.72
Heating up time	1:57 h:min
Standby power input	51.7 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240

Model: EPRA12EV3 / ETVZ12S18E(6V/9W)

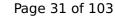
Configure model		
Model name	EPRA12EV3 / ETVZ12S18E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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

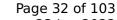
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





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	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)

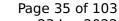
EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	134 %
Prated	8.3 kW	8.5 kW
SCOP	4.71	3.43
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = $+2$ °C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0





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	117 %
СОР	2.72
Heating up time	1:57 h:min
Standby power input	51.7 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



Model: EPRA12EW1 / ETBH12E(6V/9W)

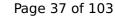
Configure model		
Model name	EPRA12EW1 / ETBH12E(6V/9W)	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

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	

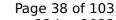
EN 14511-4	
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed





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
η_{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



Page 40 of 103

This information was generated by the HP KEYMARK database on 23 Jun 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	8.1 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



Model: EPRA12EW1 / ETBX12E(6V/9W)

Configure model			
Model name	EPRA12EW1 / ETBX12E(6V/9W)		
Application	Heating (medium temp)		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	Yes		
Cooling mode application (optional)	+7°C/12°C		

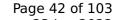
General Data		
Power supply	3x400V 50Hz	

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

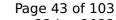
Cooling





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	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
η_{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



Page 45 of 103

This information was generated by the HP KEYMARK database on 23 Jun 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	8.1 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



Model: EPRA12EW1 / ETVH12S18E(6V/9W)

Configure model		
Model name	EPRA12EW1 / ETVH12S18E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility No		
Cooling mode application (optional)	n/a	

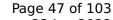
General Data		
Power supply	3x400V 50Hz	

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

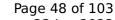
Cooling





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)

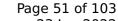
EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	138 %
Prated	8.3 kW	8.5 kW
SCOP	4.84	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	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	120 %	
СОР	2.80	
Heating up time	1:57 h:min	
Standby power input	50.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	



Model: EPRA12EW1 / ETVH12SU18E6V

Configure model		
Model name	EPRA12EW1 / ETVH12SU18E6V	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

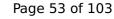
General Data		
Power supply	3x400V 50Hz	

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

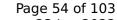
Cooling





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

EN 14825



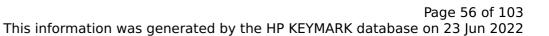


This information was generated by the fir Ke	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
РТО	o w
PSB	31 W
РСК	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)

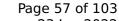
EN 14825		
	Low temperature	Medium temperature
η_{s}	191 %	138 %
Prated	8.3 kW	8.5 kW
SCOP	4.84	3.53
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	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	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)





EN 16147	
Declared load profile	L
Efficiency ηDHW	120 %
СОР	2.80
Heating up time	1:57 h:min
Standby power input	50.7 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240



Model: EPRA12EW1 / ETVX12S18E(6V/9W)

Configure model		
Model name	EPRA12EW1 / ETVX12S18E(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
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

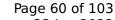
Cooling





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

EN 14825





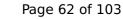
	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
РТО	o w
PSB	31 W
PCK	o w
Annual energy consumption Qce	943 kWh





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)

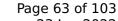
EN 14825		
	Low temperature	Medium temperature
η_{s}	196 %	141 %
Prated	8.3 kW	8.5 kW
SCOP	4.98	3.60
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.20	2.30
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.93	3.50
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	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	120 %	
СОР	2.80	
Heating up time	1:57 h:min	
Standby power input	50.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	



Model: EPRA12EW1 / ETVZ12S18E(6V/9W)

Configure model		
Model name	EPRA12EW1 / ETVZ12S18E(6V/9W)	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

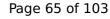
General Data		
Power supply	3x400V 50Hz	

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

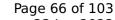
Cooling





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

EN 14825



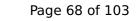


	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
PTO	o w
PSB	31 W
PCK	o w
Annual energy consumption Qce	943 kWh



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
η_{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 23 Jun 2022 Pdh Tj = 12° C 6.6 kW 3.7 kW 8.13 6.16 $COP Tj = 12^{\circ}C$ Cdh Tj = +12 °C 1.0 1.0 Pdh Tj = Tbiv8.1 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 PTO 24 W 24 W **PSB** 27 W 27 W **PCK** 0 W 0 W Supplementary Heater: Type of energy input Electricity Electricity

0.0 kW

3539 kWh

0.0 kW

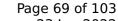
4970 kWh

Domestic Hot Water (DHW)

Average Climate

Supplementary Heater: PSUP

Annual energy consumption Qhe





EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	2.80	
Heating up time	1:57 h:min	
Standby power input	50.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240	



Model: EPRA12EV3 / ETBH12E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EV3 / ETBH12E(6V/9W) + cooling kit	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

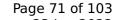
General Data		
Power supply	1x230V 50Hz	

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

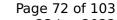
Cooling





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
PTO	3 W
PSB	25 W
PCK	o w
Annual energy consumption Qce	961 kWh



 $$\operatorname{\textit{Page}}\xspace$ 73 of 103 This information was generated by the HP KEYMARK database on 23 Jun 2022

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
η_{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



Page 74 of 103

This information was generated by the HP KEYMARK database on 23 Jun 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	8.1 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	3560 kWh	5043 kWh



Model: EPRA12EV3 / ETVH12S18E(6V/9W) + cooling kit

Configure model		
Model name EPRA12EV3 / ETVH12S18E(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	

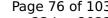
General Data		
Power supply	1x230V 50Hz	

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

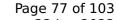




 $$\operatorname{\textit{Page}}\ 76$$ of 103 This information was generated by the HP KEYMARK database on 23 Jun 2022

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

EN 14825



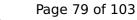


This information was generated by the HP KE	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.31
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	2.91
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.17
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.13
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.75
Cdc	0.91
Poff	25 W
РТО	3 W
PSB	25 W
PCK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

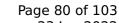
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0





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	3560 kWh	5043 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	117 %
СОР	2.72
Heating up time	1:57 h:min
Standby power input	51.7 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	240

Model: EPRA12EW1 / ETBH12E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EW1 / ETBH12E(6V/9W) + cooling kit	
Application	Heating (medium temp)	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

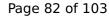
General Data		
Power supply	3x400V 50Hz	

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

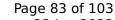
Cooling





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	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	
η_{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	



Page 85 of 103

This information was generated by the HP KEYMARK database on 23 Jun 2022

	T T T T T T T T T T T T T T T T T T T	-
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



Model: EPRA12EW1 / ETVH12S18E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EW1 / ETVH12S18E(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	

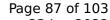
General Data		
Power supply	3x400V 50Hz	

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

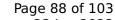
Cooling





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	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)

CEN heat pump KEYMARK

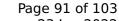
EN 14825			
	Low temperature	Medium temperature	
η_{s}	196 %	141 %	
Prated	8.3 kW	8.5 kW	
SCOP	4.98	3.60	
Tbiv	-10 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.5 kW	7.6 kW	
COP Tj = -7°C	3.20	2.30	
Cdh Tj = -7 °C	1.0	1.0	
Pdh Tj = +2°C	4.4 kW	4.6 kW	
COP Tj = +2°C	4.93	3.50	
Cdh Tj = +2 °C	1.0	1.0	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





EN 16147		
Declared load profile	L	
Efficiency ηDHW	120 %	
СОР	2.80	
Heating up time	1:57 h:min	
Standby power input	50.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	



Model: EPRA12EV3 / ETVH12S18E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EV3 / ETVH12S18E(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	

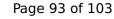
	General Data	
Power supply	1x230V 50Hz	

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

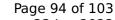
Cooling





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
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)

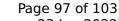
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	136 %
Prated	8.3 kW	8.5 kW
SCOP	4.82	3.48
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.5 kW	7.6 kW
COP Tj = -7°C	3.10	2.21
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	4.4 kW	4.6 kW
COP Tj = +2°C	4.76	3.37
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.3 kW	3.0 kW
COP Tj = +7°C	6.14	4.48
Cdh Tj = +7 °C	1.0	1.0





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	117 %	
СОР	2.72	
Heating up time	1:57 h:min	
Standby power input	51.7 W	
Reference hot water temperature	52.5 °C	
Mixed water at 40°C	240 I	

Model: EPRA12EW1 / ETVH12S18E(6V/9W) + cooling kit

Configure model		
Model name	EPRA12EW1 / ETVH12S18E(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	

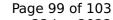
	General Data	
Power supply	3x400V 50Hz	

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



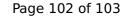


This information was generated by the fir Ke	+7°C/+12°C
Pdesignc	8.5 kW
SEER	5.41
Pdc Tj = 35°C	8.62 kW
EER Tj = 35°C	3.01
Pdc Tj = 30°C	6.68 kW
EER Tj = 30°C	4.32
Cdc	0.98
Pdc Tj = 25°C	4.04 kW
EER Tj = 25°C	6.34
Cdc	0.96
Pdc Tj = 20°C	2.69 kW
EER Tj = 20°C	8.72
Cdc	0.91
Poff	31 W
РТО	o w
PSB	31 W
PCK	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)	

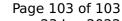
EN 14825				
	Low temperature	Medium temperature		
η_{s}	196 %	141 %		
Prated	8.3 kW	8.5 kW		
SCOP	4.98	3.60		
Tbiv	-10 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	7.5 kW	7.6 kW		
COP Tj = -7°C	3.20	2.30		
Cdh Tj = -7 °C	1.0	1.0		
Pdh Tj = $+2$ °C	4.4 kW	4.6 kW		
COP Tj = +2°C	4.93	3.50		
Cdh Tj =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





		<u> </u>
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	120 %		
СОР	2.80		
Heating up time	1:57 h:min		
Standby power input	50.7 W		
Reference hot water temperature	52.5 °C		
Mixed water at 40°C	240		