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Summary of	DAIKIN ALTHERMA 3 H HT ECH2O 14-18kW (500L)	Reg. No.	011-1W0525
Certificate Holder	Certificate Holder		
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400
City	Oostende	Country	Belgium
Certification Body	Body DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	DAIKIN ALTHERMA 3 H HT ECH2O 14-18kW (500L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	4.2 kg		
Certification Date	24.03.2022		
Testing basis	HP KEYMARK certification scheme rules rev. 9		



Model: EPRA14DV3 / ETSH16P50E

Configure model		
Model name	EPRA14DV3 / ETSH16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

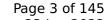
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
СОР	4.67	3.01

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





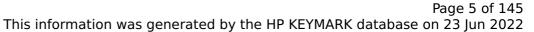
EN 14511-2	
+7°C/+12°C	
El input	2.56 kW
Cooling capacity	6.90
EER	2.7

EN 14825





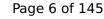
	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.99
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.99
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.98
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh





EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0





		·
Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)



EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	3.00
Heating up time	1:44 h:min
Standby power input	46.2 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l



Model: EPRA14DW1 / ETSH16P50E

Configure model		
Model name	EPRA14DW1 / ETSH16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

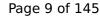
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.90 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	4.79	2.93

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

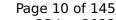
Cooling





EN 14511-2		
+7°C/+12°C		
El input	2.56 kW	
Cooling capacity	6.90	
EER	2.7	

EN 14825





	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 kWh



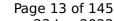
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

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Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	2.99
Heating up time	1:44 h:min
Standby power input	46.5 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l



Model: EPRA14DV3 / ETSHB16P50E

Configure model		
Model name	EPRA14DV3 / ETSHB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

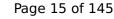
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
СОР	4.67	3.01

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

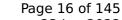
Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.56 kW
Cooling capacity	6.90
EER	2.7

EN 14825





This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.99
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.99
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.98
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	5.7 kW	6.9 kW
$COP Tj = +7^{\circ}C$	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

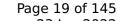


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This information was generated by the HP KEYMARK database on 23 Jun 2022

		·
Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA14DW1 / ETSHB16P50E

Configure model			
Model name	EPRA14DW1 / ETSHB16P50E		
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	No		
Cooling mode application (optional)	n/a		

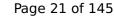
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.90 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	4.79	2.93

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

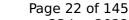
Cooling





EN 14511-2			
+7°C/+12°C			
El input	2.56 kW		
Cooling capacity	6.90		
EER	2.7		

EN 14825





	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

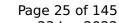
EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

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	· · · · · · · · · · · · · · · · · · ·	
Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	

Model: EPRA14DV3 / ETSX16P50E

Configure model		
Model name	EPRA14DV3 / ETSX16P50E	
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	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
СОР	4.67	3.01

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	2.56 kW		
Cooling capacity	6.90		
EER	2.7		

EN 14825





	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.99
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.99
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.98
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

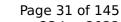


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This information was generated by the HP KEYMARK database on 23 Jun 2022

		·
Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	3.00
Heating up time	1:44 h:min
Standby power input	46.2 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0



Model: EPRA14DW1 / ETSX16P50E

Configure model		
Model name	EPRA14DW1 / ETSX16P50E	
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	5.90 kW	7.24 kW	
El input	1.23 kW	2.47 kW	
СОР	4.79	2.93	

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

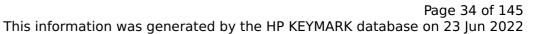


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This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 14511-2		
+7°C/+12°C		
El input	2.56 kW	
Cooling capacity	6.90	
EER	2.7	

EN	14825	5
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	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

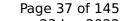
EN 14825			
	Low temperature	Medium temperature	
η_{s}	190 %	142 %	
Prated	12.5 kW	12.5 kW	
SCOP	4.81	3.63	
Tbiv	-7 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.7 kW	11.1 kW	
COP Tj = -7°C	2.97	2.43	
Cdh Tj = -7 °C	1.00	1.0	
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW	
COP Tj = +2°C	4.94	3.52	
Cdh Tj = +2 °C	1.0	1.0	
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW	
COP Tj = +7°C	5.95	4.54	
Cdh Tj = +7 °C	1.0	1.0	

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

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA14DV3 / ETSXB16P50E

Configure model		
Model name	EPRA14DV3 / ETSXB16P50E	
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	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
СОР	4.67	3.01

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

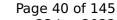
Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.56 kW
Cooling capacity	6.90
EER	2.7

	+7°C/+12°C	
El input	2.56 kW	
Cooling capacity	6.90	
EER	2.7	
EN 14825		





This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.99
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.99
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.98
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

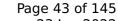


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This information was generated by the HP KEYMARK database on 23 Jun 2022

		·
Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0	

Model: EPRA14DW1 / ETSXB16P50E

Configure model		
Model name	EPRA14DW1 / ETSXB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

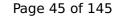
General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	5.90 kW	7.24 kW
El input	1.23 kW	2.47 kW
СОР	4.79	2.93

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

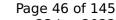
Cooling





EN 14511-2			
+7°C/+12°C			
El input	2.56 kW		
Cooling capacity	6.90		
EER	2.7		

EN 14825





	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

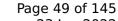


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA16DV3 / ETSH16P50E

Configure model		
Model name	EPRA16DV3 / ETSH16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

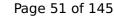
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01

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

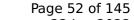
Cooling





EN 14511-2		
	+7°C/+12°C	
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 14825





	+7°C/+12°C
Pdesignc	7.9 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.99
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	177 %	140 %	
Prated	12.5 kW	12.5 kW	
SCOP	4.51	3.58	
Tbiv	-7 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	11.1 kW	11.2 kW	
COP Tj = -7°C	3.12	2.47	
Cdh Tj = -7 °C	1.00	1.0	
Pdh Tj = $+2^{\circ}$ C	6.7 kW	6.9 kW	
COP Tj = +2°C	4.44	3.56	
Cdh Tj = +2 °C	1.0	1.0	
Pdh Tj = $+7^{\circ}$ C	5.7 kW	6.9 kW	
$COP Tj = +7^{\circ}C$	5.84	4.44	
Cdh Tj = +7 °C	1.0	1.0	

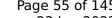


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}\xspace$ 55 of 145 This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA16DW1 / ETSH16P50E

Configure model		
Model name	EPRA16DW1 / ETSH16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

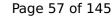
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
СОР	5.00	2.93

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

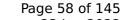
Cooling





EN 14511-2	
+7°C/+12°C	
El input	2.93 kW
Cooling capacity	7.88
EER	2.69

EN 14825



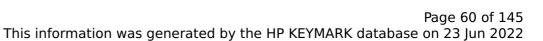


	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

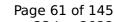
EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0



CEN heat pump KEYMARK

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	

Model: EPRA16DV3 / ETSHB16P50E

Configure model		
Model name	EPRA16DV3 / ETSHB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

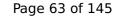
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	

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

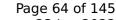
Cooling





EN 14511-2		
+7°C/+12°C		
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 14825

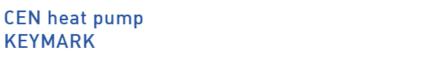




	+7°C/+12°C
Pdesignc	7.9 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.99
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825				
Low temperature Medium tempera				
η_{s}	177 %	140 %		
Prated	12.5 kW	12.5 kW		
SCOP	4.51	3.58		
Tbiv	-7 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	11.1 kW	11.2 kW		
COP Tj = -7°C	3.12	2.47		
Cdh Tj = -7 °C	1.00	1.0		
Pdh Tj = +2°C	6.7 kW	6.9 kW		
COP Tj = +2°C	4.44	3.56		
Cdh Tj = +2 °C	1.0	1.0		
Pdh Tj = +7°C	5.7 kW	6.9 kW		
COP Tj = +7°C	5.84	4.44		
Cdh Tj = +7 °C	1.0	1.0		

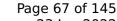


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This information was generated by the HP KEYMARK database on 23 Jun 2022

	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA16DW1 / ETSHB16P50E

Configure model			
Model name EPRA16DW1 / ETSHB16P50E			
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	9.00 kW	7.24 kW	
El input	1.80 kW	2.47 kW	
СОР	5.00	2.93	

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

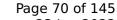
Cooling





EN 14511-2			
+7°C/+12°C			
El input	2.93 kW		
Cooling capacity	7.88		
EER	2.69		

EN 14825





This information was generated by the Hill RE	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825			
	Low temperature	Medium temperature	
η_{s}	186 %	140 %	
Prated	12.5 kW	12.5 kW	
SCOP	4.71	3.57	
Tbiv	-7 °C	-10 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	10.7 kW	11.1 kW	
COP Tj = -7°C	2.97	2.43	
Cdh Tj = -7 °C	1.00	1.0	
Pdh Tj = +2°C	6.9 kW	6.7 kW	
COP Tj = +2°C	4.94	3.52	
Cdh Tj = +2 °C	1.0	1.0	
Pdh Tj = +7°C	6.2 kW	6.5 kW	
COP Tj = +7°C	5.95	4.54	
Cdh Tj = +7 °C	1.0	1.0	

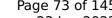


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	2.99
Heating up time	1:44 h:min
Standby power input	46.5 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l

Model: EPRA16DV3 / ETSX16P50E

Configure model		
Model name	EPRA16DV3 / ETSX16P50E	
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	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01

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

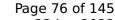
Cooling





EN 14511-2	
	+7°C/+12°C
El input	2.93 kW
Cooling capacity	7.88
EER	2.69

EN 14825





	+7°C/+12°C
Pdesignc	7.9 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.99
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

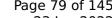


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





$$\operatorname{\textit{Page}}$ 79 of 145 This information was generated by the HP KEYMARK database on 23 Jun 2022

EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	3.00
Heating up time	1:44 h:min
Standby power input	46.2 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l



Model: EPRA16DW1 / ETSX16P50E

Configure model		
Model name	EPRA16DW1 / ETSX16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

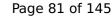
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.47 kW	
СОР	5.00	2.93	

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

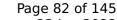
Cooling





EN 14511-2		
+7°C/+12°C		
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	

EN 14825



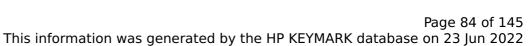


	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

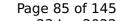
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0



Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA16DV3 / ETSXB16P50E

Configure model		
Model name	EPRA16DV3 / ETSXB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

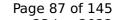
General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	

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

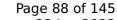
Cooling





EN 14511-2	
+7°C/+12°C	
El input	2.93 kW
Cooling capacity	7.88
EER	2.69

EN 14825





This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	7.9 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.99
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

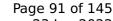
EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0





Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	

Model: EPRA16DW1 / ETSXB16P50E

Configure model			
Model name	EPRA16DW1 / ETSXB16P50E		
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	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
СОР	5.00	2.93

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	2.93 kW
Cooling capacity	7.88
EER	2.69

EN 14825



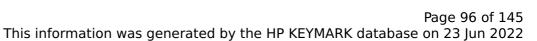


	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

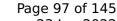
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
$COPTj = -7^{\circ}C$	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0



Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	2.99
Heating up time	1:44 h:min
Standby power input	46.5 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l

Model: EPRA18DV3 / ETSH16P50E

Configure model			
Model name EPRA18DV3 / ETSH16P50E			
Application	Heating + DHW + low temp		
Units	Indoor + Outdoor		
Climate Zone	n/a		
Reversibility	No		
Cooling mode application (optional)	n/a		

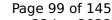
General Data		
Power supply 1x230V 50Hz		

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	

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

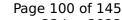
Cooling





EN 14511-2			
+7°C/+12°C			
El input	3.31 kW		
Cooling capacity	8.86		
EER	2.68		

EN 14825





	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.17
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.99
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.98
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	5.7 kW	6.9 kW
$COP Tj = +7^{\circ}C$	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

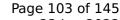


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA18DW1 / ETSH16P50E

Configure model		
Model name	EPRA18DW1 / ETSH16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

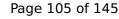
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.47 kW	
СОР	5.00	2.93	

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	3.31 kW	
Cooling capacity	8.86	
EER	2.68	

EN 14825





	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.07
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.98
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.97
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1296 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

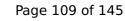


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0	



Model: EPRA18DV3 / ETSHB16P50E

Configure model		
Model name	EPRA18DV3 / ETSHB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

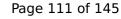
General Data		
Power supply	1x230V 50Hz	

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.41 kW
СОР	5.00	3.01

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

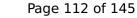




EN 14511-2	
+7°C/+12°C	
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825

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This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.17
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.99
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.98
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

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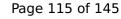


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0	



Model: EPRA18DW1 / ETSHB16P50E

Configure model		
Model name	EPRA18DW1 / ETSHB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	No	
Cooling mode application (optional)	n/a	

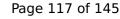
General Data		
Power supply	3x400V 50Hz	

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.47 kW	
СОР	5.00	2.93	

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

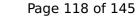
Cooling





EN 14511-2		
+7°C/+12°C		
El input	3.31 kW	
Cooling capacity	8.86	
EER	2.68	

EN 14825





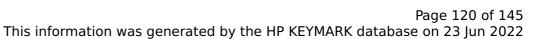
This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.07
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.98
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.97
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1296 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = $+7^{\circ}$ C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

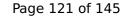
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5.6 kW	5.2 kW
7.07	5.97
1.0	1.0
10.7 kW	12.5 kW
2.97	2.12
12.1 kW	12.5 kW
2.88	2.12
35 °C	55 °C
31 W	31 W
33 W	33 W
42 W	42 W
0 W	0 W
Electricity	Electricity
0.4 kW	0.0 kW
5479 kWh	7236 kWh
	7.07 1.0 10.7 kW 2.97 12.1 kW 2.88 35 °C 31 W 33 W 42 W 0 W Electricity 0.4 kW

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	2.99	
Heating up time	1:44 h:min	
Standby power input	46.5 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA18DV3 / ETSX16P50E

Configure model		
Model name	EPRA18DV3 / ETSX16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

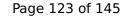
General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	

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

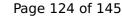
Cooling





EN 14511-2	
	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825





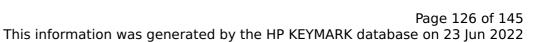
	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.17
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.99
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.98
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
$COP Tj = +7^{\circ}C$	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

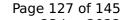
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Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0	



Model: EPRA18DW1 / ETSX16P50E

Configure model		
Model name	EPRA18DW1 / ETSX16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

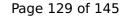
General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
СОР	5.00	2.93

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

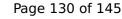
Cooling





EN 14511-2	
	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EER	2.68

EN 14825





	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.07
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.98
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.97
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1296 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

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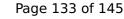


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This information was generated by the HP KEYMARK database on 23 Jun 2022

		· · · · · · · · · · · · · · · · · · ·
Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	2.99
Heating up time	1:44 h:min
Standby power input	46.5 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l



Model: EPRA18DV3 / ETSXB16P50E

Configure model		
Model name EPRA18DV3 / ETSXB16P50E		
Application Heating + DHW + low temp		
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

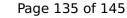
General Data			
Power supply 1x230V 50Hz			

Heating

EN 14511-2			
Low temperature Medium temperature			
Heat output	9.00 kW	7.24 kW	
El input	1.80 kW	2.41 kW	
СОР	5.00	3.01	

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

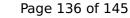
Cooling





EN 14511-2		
+7°C/+12°C		
El input	3.31 kW	
Cooling capacity	8.86	
EER	2.68	

EN 14825





This information was generated by the Hill Re	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.17
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.99
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.98
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.98
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 kWh



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

EN 14825		
	Low temperature	Medium temperature
η_{s}	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	5.7 kW	6.9 kW
$COP Tj = +7^{\circ}C$	5.84	4.44
Cdh Tj = +7 °C	1.0	1.0

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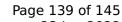


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This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.76	2.19
WTOL	35 °C	55 °C
Poff	21 W	21 W
РТО	41 W	41 W
PSB	21 W	21 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	0.0 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

Domestic Hot Water (DHW)





EN 16147		
Declared load profile	XL	
Efficiency ηDHW	125 %	
СОР	3.00	
Heating up time	1:44 h:min	
Standby power input	46.2 W	
Reference hot water temperature	44.4 °C	
Mixed water at 40°C	245.0 l	



Model: EPRA18DW1 / ETSXB16P50E

Configure model		
Model name	EPRA18DW1 / ETSXB16P50E	
Application	Heating + DHW + low temp	
Units	Indoor + Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

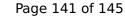
General Data		
Power supply 3x400V 50Hz		

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	9.00 kW	7.24 kW
El input	1.80 kW	2.47 kW
СОР	5.00	2.93

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

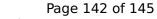
Cooling





EN 14511-2			
+7°C/+12°C			
El input	3.31 kW		
Cooling capacity	8.86		
EER	2.68		

EN 14825





	+7°C/+12°C
Pdesignc	8.8 kW
SEER	4.07
Pdc Tj = 35°C	8.86 kW
EER Tj = 35°C	2.68
Pdc Tj = 30°C	6.61 kW
EER Tj = 30°C	3.72
Cdc	0.98
Pdc Tj = 25°C	5.12 kW
EER Tj = 25°C	4.68
Cdc	0.97
Pdc Tj = 20°C	5.31 kW
EER Tj = 20°C	5.81
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1296 kWh

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	45.6 dB(A)	45.6 dB(A)
Sound power level outdoor	54.0 dB(A)	54.0 dB(A)

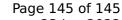
EN 14825		
	Low temperature	Medium temperature
η_{s}	190 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.81	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1.0	1.0

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Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.88	2.12
WTOL	35 °C	55 °C
Poff	31 W	31 W
РТО	33 W	33 W
PSB	42 W	42 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0.0 kW
Annual energy consumption Qhe	5366 kWh	7122 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	XL
Efficiency ηDHW	125 %
СОР	2.99
Heating up time	1:44 h:min
Standby power input	46.5 W
Reference hot water temperature	44.4 °C
Mixed water at 40°C	245.0 l