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### This information was generated by the HP KEYMARK database on 25 Mar 2022

### **Login**

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

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



	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)

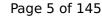
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0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

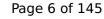
# Cooling





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

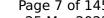
### EN 14825





This information was generated by the Till 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
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh

### Domestic Hot Water (DHW)





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

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



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
$\eta_{s}$	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

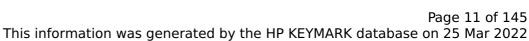
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Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	10.7 kW	12.5 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.1 kW	12.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

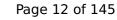
# Cooling





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

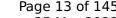
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EN 1482	25
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	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
РТО	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1069 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	



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

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



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
$\eta_{s}$	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
$COP Tj = -7^{\circ}C$	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
$COP Tj = +2^{\circ}C$	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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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

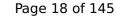
# Cooling





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

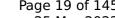
# EN 14825





	+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	0 W
Annual energy consumption Qce	1038 kWh

### Domestic Hot Water (DHW)





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

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



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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
$\eta_{s}$	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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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

### Cooling



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

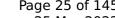
ΕN	148	25
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	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 kWh

### 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	



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

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



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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
$\eta_{s}$	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

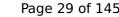
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Pdh Tj = 12°C	6.0 kW	6.2 kW
COP Tj = 12°C	7.40	5.72
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.1 kW	12.2 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.1 kW	12.2 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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

### Cooling

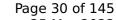




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EN 14511-2			
+7°C/+12°C			
El input	2.56 kW		
Cooling capacity	6.90		
EER	2.7		

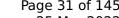
### EN 14825





	+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

### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 31$$ of 145 This information was generated by the HP KEYMARK database on 25 Mar 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: 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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



 $$\operatorname{\textit{Page}}\xspace$  33 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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
$\eta_{s}$	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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# $$\operatorname{\textit{Page}}\ 34$ of 145$$ This information was generated by the HP KEYMARK database on 25 Mar 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

# Cooling

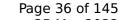


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This information was generated by the HP KEYMARK database on 25 Mar 2022

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

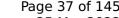
ΕN	14	48	2	5
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	+7°C/+12°C
Pdesignc	6.9 kW
SEER	3.87
Pdc Tj = 35°C	6.90 kW
EER Tj = 35°C	2.70
Pdc Tj = 30°C	5.23 kW
EER Tj = 30°C	3.65
Cdc	0.98
Pdc Tj = 25°C	5.05 kW
EER Tj = 25°C	4.58
Cdc	0.97
Pdc Tj = 20°C	4.94 kW
EER Tj = 20°C	5.41
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1069 kWh

### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 37 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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

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



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)

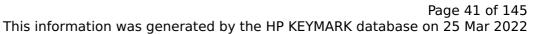
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh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

# Cooling





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

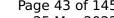
# EN 14825





This information was generated by the Till 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
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1038 kWh

## Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  43 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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: 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 14511-4			
Shutting off the heat transfer medium flow	passed		
Complete power supply failure	passed		
Defrost test	passed		
Starting and operating test	passed		

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



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
$\eta_{s}$	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

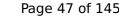


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

# Cooling





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

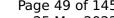
#### EN 14825





	+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
PTO	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1069 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 / 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 14511-4			
Shutting off the heat transfer medium flow	passed		
Complete power supply failure	passed		
Defrost test	passed		
Starting and operating test	passed		

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



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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
$\eta_{s}$	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



This information was general	T	
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
PTO	41 W	41 W
PSB	21 W	21 W
PCK	0 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

# Cooling

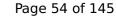


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This information was generated by the HP KEYMARK database on 25 Mar 2022

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

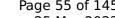
ΕN	14	48	2	5
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	+7°C/+12°C
Pdesignc	7.9 kW
SEER	4.08
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.99
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.98
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.98
Poff	21 W
PTO	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

### Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  55 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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



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

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



 $$\operatorname{\textit{Page}}\xspace$  57 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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)

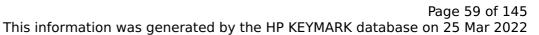
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1.0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



# $$\operatorname{\textit{Page}}\xspace$ 58 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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

# Cooling





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

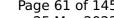
El input	2.93 kW
Cooling capacity	7.88
EER	2.69
EN 1482	5





	+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	0 W
Annual energy consumption Qce	1188 kWh

## Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  61 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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

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



 $$\operatorname{\textit{Page}}\xspace$  63 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}\xspace$ 64 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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

# Cooling



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

CEN heat pump KEYMARK

	+7°C/+12°C	
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	
EN 14825		

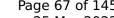
EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com Disclaimer: this document is a summary of the certified performance. The authoritative source of this information is the heat pump certificate as executed by the certification body and the related technical data.





	+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	0 W
Annual energy consumption Qce	1158 kWh

# Domestic Hot Water (DHW)





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

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



 $$\operatorname{\textit{Page}}\xspace$  69 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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
$\eta_{s}$	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

# Cooling



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This information was generated by the HP KEYMARK database on 25 Mar 2022

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

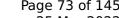
ΕN	14	48	2	5
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	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 kWh

## Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 73$$ of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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

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



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	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)

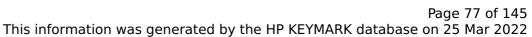
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2$ °C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh 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 Fir KETMARK database on 25 Mar 202		
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

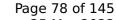
# Cooling





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

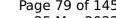
# EN 14825





	+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	0 W
Annual energy consumption Qce	1158 kWh

## Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\ 79$$  of 145 This information was generated by the HP KEYMARK database on 25 Mar 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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



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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
$\eta_{s}$	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



# $$\operatorname{\textit{Page}}$$ 82 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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

# Cooling



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This information was generated by the HP KEYMARK database on 25 Mar 2022

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

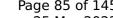
ΕN	14	182	25
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	+7°C/+12°C
Pdesignc	7.9 kW
SEER	3.98
Pdc Tj = 35°C	7.88 kW
EER Tj = 35°C	2.69
Pdc Tj = 30°C	5.92 kW
EER Tj = 30°C	3.69
Cdc	0.98
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	0.97
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	0.97
Poff	31 W
PTO	33 W
PSB	42 W
PCK	0 W
Annual energy consumption Qce	1188 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 / 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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



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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)

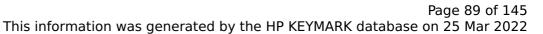
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh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



 $$\operatorname{\textit{Page}}$$  88 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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

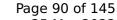
# Cooling





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

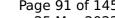
	+7°C/+12°C	
El input	2.93 kW	
Cooling capacity	7.88	
EER	2.69	
EN 14825		





This information was generated by the HP KETMARK database on 25 Mar 202			
	+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	0 W		
Annual energy consumption Qce	1158 kWh		

## Domestic Hot Water (DHW)





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

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



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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
$\eta_{s}$	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

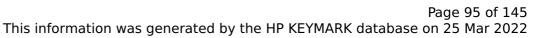


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

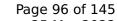
# Cooling





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

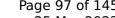
El input	2.93 kW
Cooling capacity	7.88
EER	2.69
EN 1482	5





	+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	0 W
Annual energy consumption Qce	1188 kWh

## Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  97 of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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

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



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
$\eta_{s}$	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

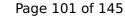


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

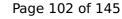
## Cooling





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

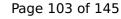
#### EN 14825





This information was generated by the Till 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
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 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 / 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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



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
$\eta_{s}$	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

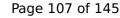


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

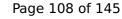
# Cooling





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

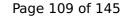
#### EN 14825





This information was generated by the Fill 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

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

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



	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)

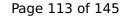
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = $+2^{\circ}$ C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	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 RETMARK database on 25 Mar 202		
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

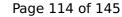
#### Cooling





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

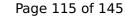
#### EN 14825





This information was generated by the Till 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
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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



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	
$\eta_{s}$	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	

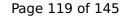


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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	5479 kWh	7236 kWh

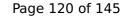
# Cooling





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

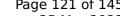
#### EN 14825





This information was generated by the HP KETMARK database on 25 Mai 202.			
+7°C/+12°C			
8.8 kW			
4.07			
8.86 kW			
2.68			
6.61 kW			
3.72			
0.98			
5.12 kW			
4.68			
0.97			
5.31 kW			
5.81			
0.97			
31 W			
33 W			
42 W			
0 W			
1296 kWh			

#### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\ 121$$ of 145 This information was generated by the HP KEYMARK database on 25 Mar 2022

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

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



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)

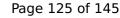
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	12.5 kW	12.5 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1.00	1.0
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1.0	1.0
Pdh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



# $$\operatorname{\textit{Page}}\ 124$ of 145$$ This information was generated by the HP KEYMARK database on 25 Mar 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

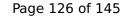
#### Cooling





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

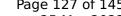
#### EN 14825





This information was generated by the HP KETMARK database on 25 Mar 202		
	+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	0 W	
Annual energy consumption Qce	1266 kWh	

#### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 127 of 145 This information was generated by the HP KEYMARK database on 25 Mar 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: 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 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test passed		

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



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
$\eta_{s}$	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

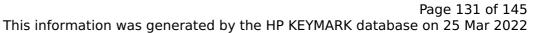


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

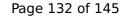
# Cooling





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

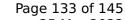
# EN 14825





	+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

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

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



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
$\eta_{s}$	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 25 Mar 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

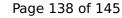
# Cooling





EN 14511-2	
	+7°C/+12°C
El input	3.31 kW
Cooling capacity	8.86
EED	2.69

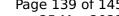
	+7°C/+12°C	
El input	3.31 kW	
Cooling capacity	8.86	
EER	2.68	
EN 14825		
i de la companya de		





This information was generated by the Fill 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
PTO	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1266 kWh

#### Domestic Hot Water (DHW)





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

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



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
$\eta_{s}$	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

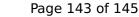


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#### This information was generated by the HP KEYMARK database on 25 Mar 2022

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

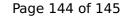
#### Cooling





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

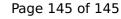
#### EN 14825





1
+7°C/+12°C
8.8 kW
4.07
8.86 kW
2.68
6.61 kW
3.72
0.98
5.12 kW
4.68
0.97
5.31 kW
5.81
0.97
31 W
33 W
42 W
0 W
1296 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