

Summary of	DAIKIN ALTHERMA 3 H HT 16KW (300L)	Reg. No.	011-1W0359
Certificate Holder			
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300 Zip B-8400		B-8400
City	Oostende	Country	Belgium
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Name of testing laboratory	Universität Stuttgart, IGE, Prüfstelle HLK		
Subtype title	DAIKIN ALTHERMA 3 H HT 16KW (300L)		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass Of Refrigerant	4.2 kg		
Certification Date	07.02.2020		



# **Model: EPRA16DV / ETSH16P30D**

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
Indoor water flow rate	1.55 m³/h	0.89 m³/h



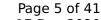
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	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	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

# Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	101 %	
СОР	2.38	
Heating up time	1:41 h:min	
Standby power input	49.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	149	



# **Model: EPRA16DV / ETSHB16P30D**

General Data	
Power supply	1x230V 50Hz

# Heating

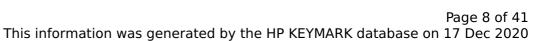
EN 14511-4		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	

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
Indoor water flow rate	1.55 m³/h	0.89 m³/h



EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

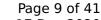
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	177 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	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	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

# Domestic Hot Water (DHW)

CEN heat pump KEYMARK





EN 16147	
Declared load profile	L
Efficiency ηDHW	101 %
СОР	2.38
Heating up time	1:41 h:min
Standby power input	49.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	149



# **Model: EPRA16DW / ETSH16P30D**

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	
Indoor water flow rate	1.55 m³/h	0.89 m³/h	



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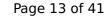
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



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Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	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	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





EN 16147	
Declared load profile	L
Efficiency ηDHW	101 %
СОР	2.38
Heating up time	1:25 h:min
Standby power input	49.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	149



# Model: EPRA16DW / ETSHB16P30D

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
Indoor water flow rate	1.55 m³/h	0.89 m³/h



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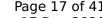
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	140 %
Prated	13.00 kW	13.00 kW
SCOP	4.48	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	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	0 W
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5765 kWh	7236 kWh

Domestic Hot Water (DHW)





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EN 16147	
Declared load profile	L
Efficiency ηDHW	101 %
СОР	2.38
Heating up time	1:25 h:min
Standby power input	49.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	149



# **Model: EPRA16DV / ETSX16P30D**

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
Indoor water flow rate	1.55 m³/h	0.89 m³/h



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EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

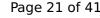
EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



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Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	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	0 W	o w
Supplementary Heater: Type of energy input	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

# Cooling

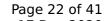




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EN 14511-2	
	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.34 m³/h
Cooling capacity	7.88
EER	2.69

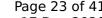
#### EN 14825





This information was generated by the Hir KE	+7°C/+12°C
Pdesignc	7.88 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	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	21 W
РТО	41 W
PSB	21 W
PCK	o w
Annual energy consumption Qce	1158 kWh

#### Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  23 of 41 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	101 %
СОР	2.38
Heating up time	1:41 h:min
Standby power input	49.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	149



# Model: EPRA16DV / ETSXB16P30D

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
Indoor water flow rate	1.55 m³/h	0.89 m³/h



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	EN 12102-1	
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.62
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.10 kW	11.20 kW
COP Tj = -7°C	3.12	2.47
Cdh	1.00	1.00
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.44	3.56
Cdh	1.00	1.00
Pdh Tj = +7°C	5.70 kW	6.90 kW
COP Tj = +7°C	5.84	4.44
Cdh	1.00	1.00



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Pdh Tj = 12°C	6.00 kW	6.20 kW
COP Tj = 12°C	7.40	5.72
Cdh	1.00	1.00
Pdh Tj = Tbiv	11.10 kW	12.20 kW
COP Tj = Tbiv	3.12	2.19
Pdh Tj = TOL	11.10 kW	12.20 kW
COP Tj = TOL	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	electrical	electrical
Supplementary Heater: PSUP	9.00 kW	9.00 kW
Annual energy consumption Qhe	5649 kWh	7134 kWh

# Cooling

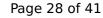




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EN 14511-2	
	+7°C/+12°C
El input	2.54 kW
Indoor water flow rate	1.34 m³/h
Cooling capacity	7.88
EER	2.69

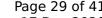
#### EN 14825





This information was generated by the Hir KE	+7°C/+12°C
Pdesignc	7.88 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	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	21 W
РТО	41 W
PSB	21 W
PCK	0 W
Annual energy consumption Qce	1158 kWh

#### Domestic Hot Water (DHW)





# $$\operatorname{\textit{Page}}\xspace$ 29 of 41 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147	
Declared load profile	L
Efficiency ηDHW	101 %
СОР	2.38
Heating up time	1:41 h:min
Standby power input	49.0 W
Reference hot water temperature	47.0 °C
Mixed water at 40°C	149



# **Model: EPRA16DW / ETSX16P30D**

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	
Indoor water flow rate	1.55 m³/h	0.89 m³/h	



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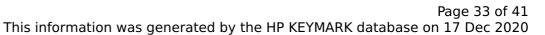
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	142 %
Prated	13.00 kW	13.00 kW
SCOP	4.57	3.63
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.72 kW	11.10 kW
COP Tj = -7°C	2.97	2.43
Cdh	1.00	1.00
Pdh Tj = +2°C	6.87 kW	6.70 kW
COP Tj = +2°C	4.94	3.52
Cdh	1.00	1.00
Pdh Tj = +7°C	6.10 kW	6.50 kW
COP Tj = +7°C	5.75	4.54
Cdh	1.00	1.00



Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	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	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

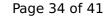
# Cooling





EN 14511-2		
	+7°C/+12°C	
El input	3.32 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

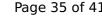
# EN 14825





This information was generated by the Hir KE	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.07
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	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
РТО	33 W
PSB	42 W
PCK	o w
Annual energy consumption Qce	1188 kWh

#### Domestic Hot Water (DHW)





 $$\operatorname{\textit{Page}}\xspace$  35 of 41 This information was generated by the HP KEYMARK database on 17 Dec 2020

EN 16147		
Declared load profile	L	
Efficiency ηDHW	101 %	
СОР	2.38	
Heating up time	1:25 h:min	
Standby power input	49.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	149	



# Model: EPRA16DW / ETSXB16P30D

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	
Indoor water flow rate	1.55 m³/h	0.89 m³/h	



 $$\operatorname{\textit{Page}}\xspace$  37 of 41 This information was generated by the HP KEYMARK database on 17 Dec 2020

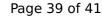
EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	46 dB(A)	46 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825				
	Low temperature	Medium temperature		
$\eta_{s}$	180 %	142 %		
Prated	13.00 kW	13.00 kW		
SCOP	4.57	3.63		
Tbiv	-7 °C	-10 °C		
TOL	-10 °C	-10 °C		
Pdh Tj = -7°C	10.72 kW	11.10 kW		
COP Tj = -7°C	2.97	2.43		
Cdh	1.00	1.00		
Pdh Tj = +2°C	6.87 kW	6.70 kW		
COP Tj = +2°C	4.94	3.52		
Cdh	1.00	1.00		
Pdh Tj = +7°C	6.10 kW	6.50 kW		
COP Tj = +7°C	5.75	4.54		
Cdh	1.00	1.00		



Pdh Tj = 12°C	5.50 kW	5.20 kW
COP Tj = 12°C	6.97	5.97
Cdh	1.00	1.00
Pdh Tj = Tbiv	10.72 kW	12.50 kW
COP Tj = Tbiv	2.97	2.12
Pdh Tj = TOL	11.80 kW	12.50 kW
COP Tj = TOL	2.84	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	electrical	electrical
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	5651 kWh	7122 kWh

# Cooling





EN 14511-2		
	+7°C/+12°C	
El input	3.32 kW	
Indoor water flow rate	1.34 m³/h	
Cooling capacity	7.88	
EER	2.69	

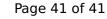
#### EN 14825





	+7°C/+12°C
Pdesignc	7.88 kW
SEER	4.07
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	1.0
Pdc Tj = 25°C	5.09 kW
EER Tj = 25°C	4.63
Cdc	1.0
Pdc Tj = 20°C	5.13 kW
EER Tj = 20°C	5.61
Cdc	1.0
Poff	31 W
РТО	33 W
PSB	42 W
РСК	o w
Annual energy consumption Qce	1188 kWh

# Domestic Hot Water (DHW)





EN 16147		
Declared load profile	L	
Efficiency ηDHW	101 %	
СОР	2.38	
Heating up time	1:25 h:min	
Standby power input	49.0 W	
Reference hot water temperature	47.0 °C	
Mixed water at 40°C	149	