

Subtype DAIKIN ALTHERMA 3 H HT F 14KW (230L)

Certificate Holder	DAIKIN Europe N.V.
Address	Zandvoordestraat 300
ZIP	B-8400
City	Oostende
Country	BE
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	DAIKIN ALTHERMA 3 H HT F 14KW (230L)
Registration number	011-1W0354
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	4.2 kg
Certification Date	07.02.2020
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Danish Technological Institute (DTI), DK

Model EPRA14DV37 / ETVH16S23E(6V/9W)7

Model name	EPRA14DV37 / ETVH16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.61
Heating up time	1:19 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
COP	4.67	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1	1
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 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
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
Annual energy consumption Qhe	7417 kWh	9654 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	229 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	9.8 kW	10 kW
COP Tj = +2°C	3.67	2.45
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	7.9 kW	9 kW
COP Tj = +7°C	5.6	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.1 kW	5.9 kW
COP Tj = 12°C	7.6	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.95	3.43
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
Annual energy consumption Qhe	2885 kWh	4463 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.99	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	21 W	
PTO	41 W	
PSB	21 W	
PCK	0 W	
Annual energy consumption Qce	1038 kWh	

Model EPRA14DW17 / ETVH16S23E(6V/9W)7

Model name	EPRA14DW17 / ETVH16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	1:19 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.9 kW	7.24 kW
El input	1.23 kW	2.47 kW
COP	4.79	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1	1
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
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	7425 kWh	9658 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	220 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	10 kW	11.4 kW
COP Tj = +2°C	3.51	2.62
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.3 kW	9 kW
COP Tj = +7°C	5.67	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	5.9 kW
COP Tj = 12°C	7.04	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.96	3.43
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	2992 kWh	4453 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.87	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	31 W	
PTO	33 W	
PSB	42 W	
PCK	0 W	
Annual energy consumption Qce	1069 kWh	

Model EPRA14DV37 / ETVH16SU23E6V7

Model name	EPRA14DV37 / ETVH16SU23E6V7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.61
Heating up time	1:19 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
COP	4.67	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1	1
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 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
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
Annual energy consumption Qhe	7417 kWh	9654 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	229 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	9.8 kW	10 kW
COP Tj = +2°C	3.67	2.45
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	7.9 kW	9 kW
COP Tj = +7°C	5.6	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.1 kW	5.9 kW
COP Tj = 12°C	7.6	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.95	3.43
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
Annual energy consumption Qhe	2885 kWh	4463 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.99	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	21 W	
PTO	41 W	
PSB	21 W	
PCK	0 W	
Annual energy consumption Qce	1038 kWh	

Model EPRA14DW17 / ETVH16SU23E6V7

Model name	EPRA14DW17 / ETVH16SU23E6V7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	1:19 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.9 kW	7.24 kW
El input	1.23 kW	2.47 kW
COP	4.79	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1	1
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
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	7425 kWh	9658 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	220 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	10 kW	11.4 kW
COP Tj = +2°C	3.51	2.62
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.3 kW	9 kW
COP Tj = +7°C	5.67	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	5.9 kW
COP Tj = 12°C	7.04	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.96	3.43
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	2992 kWh	4453 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.87	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	31 W	
PTO	33 W	
PSB	42 W	
PCK	0 W	
Annual energy consumption Qce	1069 kWh	

Model EPRA14DV37 / ETVX16S23E(6V/9W)7

Model name	EPRA14DV37 / ETVX16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.61
Heating up time	1:19 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
COP	4.67	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	140 %
P _{rated}	12.5 kW	12.5 kW
SCOP	4.51	3.58
T _{biv}	-7 °C	-10 °C
T _{OL}	-10 °C	-10 °C
P _d h T _j = -7°C	11.1 kW	11.2 kW
COP T _j = -7°C	3.12	2.47
C _d h T _j = -7 °C	1	1
P _d h T _j = +2°C	6.7 kW	6.9 kW
COP T _j = +2°C	4.44	3.56
C _d h T _j = +2 °C	1	1
P _d h T _j = +7°C	5.7 kW	6.9 kW
COP T _j = +7°C	5.84	4.44
C _d h T _j = +7 °C	1	1
P _d h T _j = 12°C	6 kW	6.2 kW
COP T _j = 12°C	7.4	5.72
C _d h T _j = +12 °C	1	1
P _d h T _j = T _{biv}	11.1 kW	12.2 kW
COP T _j = T _{biv}	3.12	2.19
P _d h T _j = T _{OL} or P _d h T _j = T _{designh} if T _{OL} < T _{designh}	11.1 kW	12.2 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.76	2.19
WT _{OL}	35 °C	55 °C
P _{off}	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 kW
Annual energy consumption Q _{he}	5726 kWh	7211 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %

Tbiv	-15 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
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
Annual energy consumption Qhe	7417 kWh	9654 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	229 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	9.8 kW	10 kW
COP Tj = +2°C	3.67	2.45
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	7.9 kW	9 kW
COP Tj = +7°C	5.6	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.1 kW	5.9 kW
COP Tj = 12°C	7.6	5.63

Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.95	3.43
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
Annual energy consumption Qhe	2885 kWh	4463 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.99	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	21 W	
PTO	41 W	
PSB	21 W	
PCK	0 W	
Annual energy consumption Qce	1038 kWh	

Model EPRA14DW17 / ETVX16S23E(6V/9W)7

Model name	EPRA14DW17 / ETVX16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:19 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.9 kW	7.24 kW
El input	1.23 kW	2.47 kW
COP	4.79	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	140 %
P _{rated}	12.5 kW	12.5 kW
SCOP	4.71	3.57
T _{biv}	-7 °C	-10 °C
T _{OL}	-10 °C	-10 °C
P _d h T _j = -7°C	10.7 kW	11.1 kW
COP T _j = -7°C	2.97	2.43
C _d h T _j = -7 °C	1	1
P _d h T _j = +2°C	6.9 kW	6.7 kW
COP T _j = +2°C	4.94	3.52
C _d h T _j = +2 °C	1	1
P _d h T _j = +7°C	6.2 kW	6.5 kW
COP T _j = +7°C	5.95	4.54
C _d h T _j = +7 °C	1	1
P _d h T _j = 12°C	5.6 kW	5.2 kW
COP T _j = 12°C	7.07	5.97
C _d h T _j = +12 °C	1	1
P _d h T _j = T _{biv}	10.7 kW	12.5 kW
COP T _j = T _{biv}	2.97	2.12
P _d h T _j = T _{OL} or P _d h T _j = T _{designh} if T _{OL} < T _{designh}	12.1 kW	12.5 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.88	2.12
WT _{OL}	35 °C	55 °C
P _{off}	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Q _{he}	5479 kWh	7236 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %

Tbiv	-15 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	7425 kWh	9658 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	220 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	10 kW	11.4 kW
COP Tj = +2°C	3.51	2.62
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.3 kW	9 kW
COP Tj = +7°C	5.67	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	5.9 kW
COP Tj = 12°C	7.04	5.63

Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.96	3.43
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	2992 kWh	4453 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.87	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	31 W	
PTO	33 W	
PSB	42 W	
PCK	0 W	
Annual energy consumption Qce	1069 kWh	

Model EPRA14DV37 / ETVZ16S23E(6V/9W)7

Model name	EPRA14DV37 / ETVZ16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.61
Heating up time	1:19 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
COP	4.67	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.51	3.58
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.1 kW	11.2 kW
COP Tj = -7°C	3.12	2.47
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.44	3.56
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.7 kW	6.9 kW
COP Tj = +7°C	5.84	4.44
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6 kW	6.2 kW
COP Tj = 12°C	7.4	5.72
Cdh Tj = +12 °C	1	1
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 kW
Annual energy consumption Qhe	5726 kWh	7211 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
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
Annual energy consumption Qhe	7417 kWh	9654 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	229 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	9.8 kW	10 kW
COP Tj = +2°C	3.67	2.45
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	7.9 kW	9 kW
COP Tj = +7°C	5.6	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.1 kW	5.9 kW
COP Tj = 12°C	7.6	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.95	3.43
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
Annual energy consumption Qhe	2885 kWh	4463 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.99	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	21 W	
PTO	41 W	
PSB	21 W	
PCK	0 W	
Annual energy consumption Qce	1038 kWh	

Model EPRA14DW17 / ETVZ16S23E(6V/9W)7

Model name	EPRA14DW17 / ETVZ16S23E(6V/9W)7
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water**EN 16147 | Average Climate**

Declared load profile	XL
Efficiency η_{DHW}	107 %
COP	2.55
Heating up time	1:19 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.9 kW	7.24 kW
El input	1.23 kW	2.47 kW
COP	4.79	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)

Sound power level outdoor	54 dB(A)	54 dB(A)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	140 %
Prated	12.5 kW	12.5 kW
SCOP	4.71	3.57
Tbiv	-7 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.7 kW	11.1 kW
COP Tj = -7°C	2.97	2.43
Cdh Tj = -7 °C	1	1
Pdh Tj = +2°C	6.9 kW	6.7 kW
COP Tj = +2°C	4.94	3.52
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	6.2 kW	6.5 kW
COP Tj = +7°C	5.95	4.54
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.6 kW	5.2 kW
COP Tj = 12°C	7.07	5.97
Cdh Tj = +12 °C	1	1
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
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Qhe	5479 kWh	7236 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %
Tbiv	-15 °C	-18 °C

TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	7425 kWh	9658 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	220 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	10 kW	11.4 kW
COP Tj = +2°C	3.51	2.62
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.3 kW	9 kW
COP Tj = +7°C	5.67	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	5.9 kW
COP Tj = 12°C	7.04	5.63
Cdh Tj = +12 °C	1	

Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.96	3.43
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	2992 kWh	4453 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.87	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	31 W	
PTO	33 W	
PSB	42 W	
PCK	0 W	
Annual energy consumption Qce	1069 kWh	

Model EPRA14DV37 / ETVH16S23E(6V/9W)7 + cooling kit

Model name	EPRA14DV37 / ETVH16S23E(6V/9W)7 + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	1x230V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 16147 | Average Climate

Declared load profile	XL
Efficiency η_{DHW}	108 %
COP	2.61
Heating up time	1:19 h:min
Standby power input	49.2 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

Shutting off the heat transfer medium flow passed

Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.69 kW	7.24 kW
El input	1.22 kW	2.41 kW
COP	4.67	3.01

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	2.56 kW	
EER	6.9	
	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature

Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	177 %	140 %
P _{rated}	12.5 kW	12.5 kW
SCOP	4.51	3.58
T _{biv}	-7 °C	-10 °C
T _{OL}	-10 °C	-10 °C
P _d h T _j = -7°C	11.1 kW	11.2 kW
COP T _j = -7°C	3.12	2.47
Cd _h T _j = -7 °C	1	1
P _d h T _j = +2°C	6.7 kW	6.9 kW
COP T _j = +2°C	4.44	3.56
Cd _h T _j = +2 °C	1	1
P _d h T _j = +7°C	5.7 kW	6.9 kW
COP T _j = +7°C	5.84	4.44
Cd _h T _j = +7 °C	1	1
P _d h T _j = 12°C	6 kW	6.2 kW
COP T _j = 12°C	7.4	5.72
Cd _h T _j = +12 °C	1	1
P _d h T _j = T _{biv}	11.1 kW	12.2 kW
COP T _j = T _{biv}	3.12	2.19
P _d h T _j = T _{OL} or P _d h T _j = T _{designh} if T _{OL} < T _{designh}	11.1 kW	12.2 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.76	2.19
WT _{OL}	35 °C	55 °C
P _{off}	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 kW
Annual energy consumption Q _{he}	5726 kWh	7211 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %

Tbiv	-15 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
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
Annual energy consumption Qhe	7417 kWh	9654 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	229 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	9.8 kW	10 kW
COP Tj = +2°C	3.67	2.45
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	7.9 kW	9 kW
COP Tj = +7°C	5.6	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	6.1 kW	5.9 kW
COP Tj = 12°C	7.6	5.63

Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.95	3.43
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
Annual energy consumption Qhe	2885 kWh	4463 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.99	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	21 W	
PTO	41 W	
PSB	21 W	
PCK	0 W	
Annual energy consumption Qce	1038 kWh	

Model EPRA14DW17 / ETVH16S23E(6V/9W)7 + cooling kit

Model name	EPRA14DW17 / ETVH16S23E(6V/9W)7 + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

General data

Power supply	3x400V 50Hz
Off-peak product	n/a

Outdoor Air/Water
EN 16147 | Average Climate

Declared load profile	XL
Efficiency ηDHW	107 %
COP	2.55
Heating up time	1:19 h:min
Standby power input	58.5 W
Reference hot water temperature	52.5 °C
Mixed water at 40°C	298 l

EN 14511-4 | Heating

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

EN 14511-2 | Heating

	Low temperature	Medium temperature
Heat output	5.9 kW	7.24 kW
El input	1.23 kW	2.47 kW
COP	4.79	3.01

EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	2.56 kW	
Cooling capacity	6.9	
EER	2.7	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	54 dB(A)	54 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	186 %	140 %
P _{rated}	12.5 kW	12.5 kW
SCOP	4.71	3.57
T _{biv}	-7 °C	-10 °C
T _{OL}	-10 °C	-10 °C
P _d h T _j = -7°C	10.7 kW	11.1 kW
COP T _j = -7°C	2.97	2.43
C _d h T _j = -7 °C	1	1
P _d h T _j = +2°C	6.9 kW	6.7 kW
COP T _j = +2°C	4.94	3.52
C _d h T _j = +2 °C	1	1
P _d h T _j = +7°C	6.2 kW	6.5 kW
COP T _j = +7°C	5.95	4.54
C _d h T _j = +7 °C	1	1
P _d h T _j = 12°C	5.6 kW	5.2 kW
COP T _j = 12°C	7.07	5.97
C _d h T _j = +12 °C	1	1
P _d h T _j = T _{biv}	10.7 kW	12.5 kW
COP T _j = T _{biv}	2.97	2.12
P _d h T _j = T _{OL} or P _d h T _j = T _{designh} if T _{OL} < T _{designh}	12.1 kW	12.5 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.88	2.12
WT _{OL}	35 °C	55 °C
P _{off}	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.4 kW	0 kW
Annual energy consumption Q _{he}	5479 kWh	7236 kWh

EN 12102-1 | Colder Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Colder Climate

	Low temperature	Medium temperature
η_s	163 %	125 %

Tbiv	-15 °C	-18 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	8 kW	7.5 kW
COP Tj = -7°C	3.5	2.74
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.9 kW	5.8 kW
COP Tj = +2°C	5.07	3.67
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	5.3 kW	5.6 kW
COP Tj = +7°C	6.1	4.69
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	6.2 kW
COP Tj = 12°C	7.03	6.12
Cdh Tj = +12 °C	1	
Pdh Tj = Tbiv	10.7 kW	11 kW
COP Tj = Tbiv	2.62	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.1 kW	10.6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.16	1.65
WTOL	35 °C	55 °C
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	7425 kWh	9658 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	44 dB(A)	44 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
ηs	220 %	166 %
Tbiv	5 °C	5 °C
Pdh Tj = +2°C	10 kW	11.4 kW
COP Tj = +2°C	3.51	2.62
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.3 kW	9 kW
COP Tj = +7°C	5.67	3.78
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.7 kW	5.9 kW
COP Tj = 12°C	7.04	5.63

Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	9.8 kW	11.1 kW
COP Tj = Tbiv	4.96	3.43
Poff	31 W	31 W
PTO	33 W	33 W
PSB	42 W	42 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Annual energy consumption Qhe	2992 kWh	4453 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	6.9 kW	
SEER	3.87	
Pdc Tj = 35°C	6.9 kW	
EER Tj = 35°C	2.7	
Pdc Tj = 30°C	5.23 kW	
EER Tj = 30°C	3.65	
Cdc Tj = 30 °C	1	
Pdc Tj = 25°C	5.05 kW	
EER Tj = 25°C	4.58	
Cdc Tj = 25 °C	1	
Pdc Tj = 20°C	4.94 kW	
EER Tj = 20°C	5.41	
Cdc Tj = 20 °C	1	
Poff	31 W	
PTO	33 W	
PSB	42 W	
PCK	0 W	
Annual energy consumption Qce	1069 kWh	