

Subtype DAIKIN ALTHERMA 3 R F 16KW (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 R F 16KW (230L)
Registration number	011-1W0497
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	3.8 kg
Certification Date	10.11.2021
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Centro de Ensayos, Innovación y Servicios (CEIS), ES

Model ERLA16DV37 / EBVH16S23D(6V/9W)

Model name	ERLA16DV37 / EBVH16S23D(6V/9W)
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 ηDHW	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency ηDHW	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	237 %	162 %
P _{rated}	12 kW	14.1 kW
SCOP	5.99	4.26
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh T_j} = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh T_j} = +7°C	8.1 kW	9.1 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh T_j} = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh T_j} = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.91
P _{dh T_j} = TOL or P _{dh T_j} = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc T_j} = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc T_j} = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc T_j} = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DV37 / EBVH16S23D(6V/9W) + cooling kit

Model name	ERLA16DV37 / EBVH16S23D(6V/9W) + 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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7392 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	246 %	165 %
Prated	12 kW	14.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.4
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DV37 / EBVH16SU23D6V

Model name	ERLA16DV37 / EBVH16SU23D6V
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	237 %	162 %
P _{rated}	12 kW	14.1 kW
SCOP	5.99	4.26
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh T_j} = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh T_j} = +7°C	8.1 kW	9.1 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh T_j} = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh T_j} = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.91
P _{dh T_j} = TOL or P _{dh T_j} = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc T_j} = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc T_j} = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc T_j} = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DV37 / EBVX16S23D(6V/9W)

Model name	ERLA16DV37 / EBVX16S23D(6V/9W)
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7392 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	246 %	165 %
Prated	12 kW	14.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.4
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
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Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DV37 / EBVZ16S23D(6V/9W)

Model name	ERLA16DV37 / EBVZ16S23D(6V/9W)
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	237 %	162 %
P _{rated}	12 kW	14.1 kW
SCOP	5.99	4.26
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh T_j} = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh T_j} = +7°C	8.1 kW	9.1 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh T_j} = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh T_j} = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.91
P _{dh T_j} = TOL or P _{dh T_j} = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc T_j} = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc T_j} = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc T_j} = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DV37 / EBVZ16S23D(6V/9W) + cooling kit

Model name	ERLA16DV37 / EBVZ16S23D(6V/9W) + 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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7392 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	246 %	165 %
Prated	12 kW	14.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.4
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVH16S23D(6V/9W)

Model name	ERLA16DW17 / EBVH16S23D(6V/9W)
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	237 %	162 %
P _{rated}	12 kW	14.1 kW
SCOP	5.99	4.26
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh} T _j = +7°C	8.1 kW	9.1 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh} T _j = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc} T _j = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc} T _j = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc} T _j = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVH16S23D(6V/9W) + cooling kit

Model name	ERLA16DW17 / EBVH16S23D(6V/9W) + 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 η_{DHW}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7390 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	246 %	165 %
Prated	12 kW	14.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.4
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVH16SU23D6V

Model name	ERLA16DW17 / EBVH16SU23D6V
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	237 %	162 %
P _{rated}	12 kW	14.1 kW
SCOP	5.99	4.26
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh} T _j = +7°C	8.1 kW	9.1 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh} T _j = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.91
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc} T _j = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc} T _j = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc} T _j = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVX16S23D(6V/9W)

Model name	ERLA16DW17 / EBVX16S23D(6V/9W)
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 η_{DHW}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7390 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_S	246 %	165 %
P _{rated}	12 kW	14.1 kW
SCOP	6.23	4.38
T _{biv}	2 °C	5 °C
TOL	2 °C	2 °C
P _{dh} T _j = +2°C	11.9 kW	9.8 kW
COP T _j = +2°C	3.3	2.17
Cd _h T _j = +2 °C	1	1
P _{dh} T _j = +7°C	8.1 kW	7.6 kW
COP T _j = +7°C	5.64	3.7
Cd _h T _j = +7 °C	1	1
P _{dh} T _j = 12°C	5.2 kW	5 kW
COP T _j = 12°C	7.73	5.69
Cd _h T _j = +12 °C	1	1
P _{dh} T _j = T _{biv}	11.9 kW	11.1 kW
COP T _j = T _{biv}	3.3	2.4
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	11.92 kW	9.83 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	3.3	2.17
WTOL	35 °C	55 °C
P _{off}	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Q _{he}	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	13.6 kW	
SEER	5.76	
P _{dc} T _j = 35°C	13.6 kW	
EER T _j = 35°C	2.88	
P _{dc} T _j = 30°C	9.7 kW	
EER T _j = 30°C	4.58	
Cd _c T _j = 30 °C	0.99	
P _{dc} T _j = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVZ16S23D(6V/9W)

Model name	ERLA16DW17 / EBVZ16S23D(6V/9W)
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}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	181 %	130 %
Prated	12 kW	12 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5377 kWh	7477 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	237 %	162 %
Prated	12 kW	14.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	9.1 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.91
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2675 kWh	4576 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

Model ERLA16DW17 / EBVZ16S23D(6V/9W) + cooling kit

Model name	ERLA16DW17 / EBVZ16S23D(6V/9W) + 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 η_{DHW}	109 %
COP	2.63
Heating up time	1:11 h:min
Standby power input	43.2 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 l

EN 16147 | Warmer Climate

Declared load profile	XL
Efficiency η_{DHW}	124 %
COP	3
Heating up time	1:10 h:min
Standby power input	37.6 W
Reference hot water temperature	51.5 °C
Mixed water at 40°C	295 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	16 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

EN 14511-2 | Cooling

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.68 kW	
EER	13.8	
	2.94	

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	184 %	131 %
Prated	12 kW	12 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.4 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	6.7 kW	6.9 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	4.7 kW	4.4 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.5 kW	5.3 kW
COP Tj = 12°C	8.82	6.6
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.4 kW	10.1 kW
COP Tj = Tbiv	2.72	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.6 kW	6 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.5
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.4 kW	6.1 kW
Annual energy consumption Qhe	5293 kWh	7390 kWh

EN 12102-1 | Warmer Climate

	Low temperature	Medium temperature
Sound power level indoor	44 dB(A)	44 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825 | Warmer Climate

	Low temperature	Medium temperature
η_s	246 %	165 %
Prated	12 kW	14.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	5 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.3	2.17
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	3.7
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	5.2 kW	5 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	11.9 kW	11.1 kW
COP Tj = Tbiv	3.3	2.4
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	11.92 kW	9.83 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.3	2.17
WTOL	35 °C	55 °C
Poff	23 W	23 W
PTO	23 W	23 W
PSB	23 W	23 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.08 kW	4.27 kW
Annual energy consumption Qhe	2573 kWh	4474 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.6 kW	
SEER	5.76	
Pdc Tj = 35°C	13.6 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.7 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.99	
Pdc Tj = 25°C	6.2 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.98
Pdc Tj = 20°C	5.9 kW
EER Tj = 20°C	8.69
Cdc Tj = 20 °C	0.97
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh