

**Subtype DAIKIN ALTHERMA 3 R F+W 14KW (180L)**

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+W 14KW (180L)
Registration number	011-1W0499
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. 8

**Model ERLA14DV3 / EBBH16D(6V/9W)**

Model name	ERLA14DV3 / EBBH16D(6V/9W)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
EI input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
EI input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
ηs	239 %	166 %
Prated	11 kW	12.1 kW
SCOP	6.04	4.23
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83
Cdh Tj = +7 °C	1.0	

Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DV3 / EBBX16D(6V/9W)**

Model name	ERLA14DV3 / EBBX16D(6V/9W)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
ηs	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83

Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DV3 / EBVH16S18D(6V/9W)**

Model name	ERLA14DV3 / EBVH16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
$\eta_S$	239 %	166 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.04	4.23
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh T<sub>j</sub></sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh T<sub>j</sub></sub> = TOL or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc T<sub>j</sub></sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc T<sub>j</sub></sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc T<sub>j</sub></sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DV3 / EBVX16S18D(6V/9W)**

Model name	ERLA14DV3 / EBVX16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DV3 / EBVZ16S18D(6V/9W)**

Model name	ERLA14DV3 / EBVZ16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
$\eta_S$	239 %	166 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.04	4.23
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh</sub> T <sub>j</sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc</sub> T <sub>j</sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc</sub> T <sub>j</sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc</sub> T <sub>j</sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DW1 / EBBH16D(6V/9W)**

Model name	ERLA14DW1 / EBBH16D(6V/9W)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
EI input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
EI input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
ηs	239 %	166 %
Prated	11 kW	12.1 kW
SCOP	6.04	4.23
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83
Cdh Tj = +7 °C	1.0	

Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DW1 / EBBX16D(6V/9W)**

Model name	ERLA14DW1 / EBBX16D(6V/9W)
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
ηs	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83

Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DW1 / EBVH16S18D(6V/9W)**

Model name	ERLA14DW1 / EBVH16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
$\eta_S$	239 %	166 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.04	4.23
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh T<sub>j</sub></sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh T<sub>j</sub></sub> = TOL or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc T<sub>j</sub></sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc T<sub>j</sub></sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc T<sub>j</sub></sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DW1 / EBVX16S18D(6V/9W)**

Model name	ERLA14DW1 / EBVX16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.31	4.35
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh T<sub>j</sub></sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh T<sub>j</sub></sub> = TOL or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc T<sub>j</sub></sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc T<sub>j</sub></sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc T<sub>j</sub></sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DW1 / EBVZ16S18D(6V/9W)**

Model name	ERLA14DW1 / EBVZ16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	181 %	126 %
Prated	11 kW	11 kW
SCOP	4.60	3.22
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4935 kWh	7047 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
$\eta_S$	239 %	166 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.04	4.23
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh Tj = +2°C</sub>	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh Tj = +7°C</sub>	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh Tj = 12°C</sub>	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh Tj = Tbiv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = Tbiv	3.51	2.65
P <sub>dh Tj = TOL or Pdh Tj = Tdesignh if TOL &lt; Tdesignh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = Tdesignh if TOL < Tdesignh	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2431 kWh	3818 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc Tj = 35°C</sub>	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc Tj = 30°C</sub>	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc Tj = 25°C</sub>	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DV3 / EBBH16D(6V/9W) + cooling kit**

Model name	ERLA14DV3 / EBBH16D(6V/9W) + cooling kit
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
ηs	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83

Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DV3 / EBVH16S18D(6V/9W) + cooling kit**

Model name	ERLA14DV3 / EBVH16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DW1 / EBBH16D(6V/9W) + cooling kit**

Model name	ERLA14DW1 / EBBH16D(6V/9W) + cooling kit
Application	Heating (medium temp)
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	4.34 kW	
Cooling capacity	12.92	
EER	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
ηs	249 %	171 %
Prated	11 kW	12.1 kW
SCOP	6.31	4.35
Tbiv	2 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.0 kW	10.1 kW
COP Tj = +2°C	3.51	2.20
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	7.4 kW	7.6 kW
COP Tj = +7°C	5.77	3.83

Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.73	5.69
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	11.0 kW	11.1 kW
COP Tj = Tbiv	3.51	2.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.95 kW	10.06 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.51	2.20
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	0.05 kW	2.04 kW
Annual energy consumption Qhe	2330 kWh	3717 kWh

### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	12.90 kW	
SEER	5.86	
Pdc Tj = 35°C	12.90 kW	
EER Tj = 35°C	2.96	
Pdc Tj = 30°C	8.80 kW	
EER Tj = 30°C	4.77	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	7.00	
Cdc Tj = 25 °C	0.970	
Pdc Tj = 20°C	5.90 kW	
EER Tj = 20°C	8.88	
Cdc Tj = 20 °C	0.960	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1314 kWh	

**Model ERLA14DW1 / EBVH16S18D(6V/9W) + cooling kit**

Model name	ERLA14DW1 / EBVH16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency ηDHW	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency ηDHW	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.31	4.35
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh T<sub>j</sub></sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh T<sub>j</sub></sub> = TOL or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc T<sub>j</sub></sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc T<sub>j</sub></sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc T<sub>j</sub></sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DV3 / EBVZ16S18D(6V/9W) + cooling kit**

Model name	ERLA14DV3 / EBVZ16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.31	4.35
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh T<sub>j</sub></sub> = +2°C	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = T <sub>biv</sub>	3.51	2.65
P <sub>dh T<sub>j</sub></sub> = TOL or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc T<sub>j</sub></sub> = 35°C	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc T<sub>j</sub></sub> = 30°C	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc T<sub>j</sub></sub> = 25°C	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh

**Model ERLA14DW1 / EBVZ16S18D(6V/9W) + cooling kit**

Model name	ERLA14DW1 / EBVZ16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	Warmer, Warmer Climate
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	L
Efficiency $\eta_{DHW}$	116 %
COP	2.73
Heating up time	1:21 h:min
Standby power input	42.0 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 l

**EN 16147 | Warmer Climate**

Declared load profile	L
Efficiency $\eta_{DHW}$	139 %
COP	3.26
Heating up time	1:16 h:min
Standby power input	38.4 W
Reference hot water temperature	52.7 °C
Mixed water at 40°C	244.0 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	12.00 kW	11.87 kW
El input	2.46 kW	4.11 kW
COP	4.87	2.89

**EN 14511-2 | Cooling**

El input	+7°C/+12°C	+18°C/+23°C
Cooling capacity	4.34 kW	
EER	12.92	
	2.98	

**EN 12102-1 | Average Climate**

	Low temperature	Medium temperature
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
ηs	184 %	128 %
Prated	11 kW	11 kW
SCOP	4.68	3.26
Tbiv	-7 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.8 kW	8.5 kW
COP Tj = -7°C	2.99	1.80
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.1 kW	6.2 kW
COP Tj = +2°C	4.35	3.28
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.70	4.88
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.65	6.58
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.8 kW	8.9 kW
COP Tj = Tbiv	2.99	1.87
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.1 kW	7.0 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.76
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	1.9 kW	4.0 kW
Annual energy consumption Qhe	4851 kWh	6962 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
$\eta_S$	249 %	171 %
P <sub>rated</sub>	11 kW	12.1 kW
SCOP	6.31	4.35
T <sub>biv</sub>	2 °C	4 °C
TOL	2 °C	2 °C
P <sub>dh Tj = +2°C</sub>	11.0 kW	10.1 kW
COP T <sub>j</sub> = +2°C	3.51	2.20
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh Tj = +7°C</sub>	7.4 kW	7.6 kW
COP T <sub>j</sub> = +7°C	5.77	3.83
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh Tj = 12°C</sub>	5.2 kW	5.0 kW
COP T <sub>j</sub> = 12°C	7.73	5.69
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh Tj = Tbiv</sub>	11.0 kW	11.1 kW
COP T <sub>j</sub> = Tbiv	3.51	2.65
P <sub>dh Tj = TOL or Pdh Tj = Tdesignh if TOL &lt; Tdesignh</sub>	10.95 kW	10.06 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = Tdesignh if TOL < Tdesignh	3.51	2.20
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.05 kW	2.04 kW
Annual energy consumption Q <sub>he</sub>	2330 kWh	3717 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	12.90 kW	
SEER	5.86	
P <sub>dc Tj = 35°C</sub>	12.90 kW	
EER T <sub>j</sub> = 35°C	2.96	
P <sub>dc Tj = 30°C</sub>	8.80 kW	
EER T <sub>j</sub> = 30°C	4.77	
C <sub>dc</sub> T <sub>j</sub> = 30 °C	0.990	
P <sub>dc Tj = 25°C</sub>	6.20 kW	

EER Tj = 25°C	7.00
Cdc Tj = 25 °C	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.88
Cdc Tj = 20 °C	0.960
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1314 kWh