

## Subtype DAIKIN ALTHERMA 3 R F+W 16KW (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 16KW (180L)
Registration number	011-1W0500
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 ERLA16DV3 / EBBH16D(6V/9W)

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

## 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DV3 / EBBH16D(6V/9W) + cooling kit

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

## 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DV3 / EBBX16D(6V/9W)

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

## 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C



TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
ηs	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DV3 / EBVH16S18D(6V/9W)

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DV3 / EBVH16S18D(6V/9W) + cooling kit

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DV3 / EBVX16S18D(6V/9W)

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DV3 / EBVZ16S18D(6V/9W)

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

#### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DV3 / EBVZ16S18D(6V/9W) + cooling kit

Model name	ERLA16DV3 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DW1 / EBBH16D(6V/9W)

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DW1 / EBBH16D(6V/9W) + cooling kit

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

## 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DW1 / EBBX16D(6V/9W)

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

### EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C

TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	
EER Tj = 25°C	6.99	
Cdc Tj = 25 °C	0.980	
Pdc Tj = 20°C	6.20 kW	
EER Tj = 20°C	6.99	
Cdc Tj = 20 °C	0.980	
Poff	23 W	
PTO	23 W	
PSB	23 W	
PCK	0 W	
Annual energy consumption Qce	1417 kWh	

## Model ERLA16DW1 / EBVH16S18D(6V/9W)

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling



	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DW1 / EBVH16S18D(6V/9W) + cooling kit

Model name	ERLA16DW1 / 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 $\eta_{DHW}$	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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

#### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DW1 / EBVX16S18D(6V/9W)

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling



	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DW1 / EBVZ16S18D(6V/9W)

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

#### 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
$\eta_s$	181 %	130 %
Prated	12.0 kW	12.0 kW
SCOP	4.61	3.32
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	237 %	168 %
Prated	12.0 kW	12.1 kW
SCOP	5.99	4.26
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2675 kWh	3792 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh

## Model ERLA16DW1 / EBVZ16S18D(6V/9W) + cooling kit

Model name	ERLA16DW1 / 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	16.00 kW	15.63 kW
El input	3.53 kW	5.68 kW
COP	4.53	2.75

## EN 14511-2 | Cooling



	+7°C/+12°C	+18°C/+23°C
El input	4.68 kW	
Cooling capacity	13.63	
EER	2.91	

### 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
$\eta_s$	184 %	131 %
Prated	12.0 kW	12.0 kW
SCOP	4.68	3.35
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.2 kW	9.40 kW
COP Tj = -7°C	2.87	1.95
Cdh Tj = -7 °C	1.0	
Pdh Tj = +2°C	6.70 kW	6.90 kW
COP Tj = +2°C	4.33	3.27
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.70 kW	4.40 kW
COP Tj = +7°C	6.83	4.93
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	8.82	6.60
Cdh Tj = +12 °C	1.0	1.0
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	6.00 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.52	1.50
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	1.40 kW	6.10 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
$\eta_s$	246 %	172 %
Prated	12.0 kW	12.1 kW
SCOP	6.23	4.38
Tbiv	2 °C	3 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.9 kW	9.8 kW
COP Tj = +2°C	3.30	2.17
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	8.1 kW	7.6 kW
COP Tj = +7°C	5.64	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	11.9 kW	11.0 kW
COP Tj = Tbiv	3.30	2.40
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	3.30	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	2.27 kW
Annual energy consumption Qhe	2573 kWh	3690 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	13.60 kW	
SEER	5.76	
Pdc Tj = 35°C	13.60 kW	
EER Tj = 35°C	2.88	
Pdc Tj = 30°C	9.70 kW	
EER Tj = 30°C	4.58	
Cdc Tj = 30 °C	0.990	
Pdc Tj = 25°C	6.20 kW	

EER Tj = 25°C	6.99
Cdc Tj = 25 °C	0.980
Pdc Tj = 20°C	6.20 kW
EER Tj = 20°C	6.99
Cdc Tj = 20 °C	0.980
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1417 kWh