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Summary of	DAIKIN ALTHERMA 3 R F+W 11KW (180L)	Reg. No.	011-1W0498
Certificate Holder			
Name	DAIKIN Europe N.V.		
Address	Zandvoordestraat 300	Zip	B-8400
City	Oostende	Country	Belgium
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH		
Subtype title	DAIKIN ALTHERMA 3 R F+W 11KW (180L)		
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: ERLA11DV3 / EBBH11D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DV3 / EBBH11D(6V/9W)
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	237 %	161 %
Prated	10.00 kW	10.00 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.10
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.80 kW	9.00 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.70 kW	6.20 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	9.20 kW	8.50 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Q <sub>he</sub>	2228 kWh	3258 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	126 %
Prated	10 kW	10 kW
SCOP	4.63	3.23
T <sub>biv</sub>	-8 °C	-5 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.2 kW	7.9 kW
COP T <sub>j</sub> = -7°C	3.03	1.89
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.5 kW	5.4 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4462 kWh	6397 kWh

# Model: ERLA11DV3 / EBBH11D(6V/9W) + cooling kit

<b>Configure model</b>	
Model name	ERLA11DV3 / EBBH11D(6V/9W) + cooling kit
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**



This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Model: ERLA11DV3 / EBBX11D(6V/9W)

Configure model	
Model name	ERLA11DV3 / EBBX11D(6V/9W)
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER Tj = 35°C	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER Tj = 30°C	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER Tj = 25°C	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER Tj = 20°C	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate



<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Model: ERLA11DV3 / EBVH11S18D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DV3 / EBVH11S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	237 %	161 %
Prated	10.00 kW	10.00 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.10
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.80 kW	9.00 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.70 kW	6.20 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.000	1.000
Pdh Tj = Tbiv	9.20 kW	8.50 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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

This information was generated by the HP KEYMARK database on 23 Jun 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	1.01 kW
Annual energy consumption Q <sub>he</sub>	2228 kWh	3258 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	126 %
Prated	10 kW	10 kW
SCOP	4.63	3.23
T <sub>biv</sub>	-8 °C	-5 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.2 kW	7.9 kW
COP T <sub>j</sub> = -7°C	3.03	1.89
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.5 kW	5.4 kW



This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4462 kWh	6397 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
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

## Average Climate

<b>EN 16147</b>	
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

## Model: ERLA11DV3 / EBVH11S18D(6V/9W) + cooling kit

Configure model	
Model name	ERLA11DV3 / EBVH11S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

General Data	
Power supply	1x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER Tj = 35°C	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER Tj = 30°C	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER Tj = 25°C	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER Tj = 20°C	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68



This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate

<b>EN 16147</b>	
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

## Model: ERLA11DV3 / EBVX11S18D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DV3 / EBVX11S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68



This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate

<b>EN 16147</b>	
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

## Model: ERLA11DV3 / EBVZ16S18D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DV3 / EBVZ16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	1x230V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	237 %	161 %
Prated	10 kW	10 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.09
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.2 kW	9.0 kW
COP Tj = +2°C	3.80	2.23
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.67
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.80	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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

This information was generated by the HP KEYMARK database on 23 Jun 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	1.01 kW
Annual energy consumption Qhe	2228 kWh	3262 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	131 %
Prated	10 kW	10 kW
SCOP	4.61	3.23
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.35	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.69	4.79
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.47	6.38
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4479 kWh	6405 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
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

## Average Climate

<b>EN 16147</b>	
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



# Model: **ERLA11DV3 / EBVZ16S18D(6V/9W) + cooling kit**

<b>Configure model</b>	
Model name	ERLA11DV3 / EBVZ16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	1x230V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10.00 kW	10.00 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.80 kW	9.00 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	6.70 kW	6.20 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.000	1.000
Pdh Tj = 12°C	5.20 kW	5.00 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.000	1.000

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.20 kW	8.50 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate

<b>EN 16147</b>	
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



## Model: ERLA11DW1 / EBBH11D(6V/9W)

Configure model	
Model name	ERLA11DW1 / EBBH11D(6V/9W)
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	236 %	161 %
Prated	10 kW	10 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.10
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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

This information was generated by the HP KEYMARK database on 23 Jun 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	1.01 kW
Annual energy consumption Qhe	2228 kWh	3258 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	126 %
Prated	10 kW	10 kW
SCOP	4.63	3.23
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4462 kWh	6397 kWh

## Model: **ERLA11DW1 / EBBH11D(6V/9W) + cooling kit**

<b>Configure model</b>	
Model name	ERLA11DW1 / EBBH11D(6V/9W) + cooling kit
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2****+7°C/+12°C**

El input

3.47 kW

Cooling capacity

11.18

EER

3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
Pdesignc	11.00 kW
SEER	5.92
Pdc Tj = 35°C	11.00 kW
EER Tj = 35°C	3.19
Pdc Tj = 30°C	8.10 kW
EER Tj = 30°C	4.94
Cdc	0.990
Pdc Tj = 25°C	5.70 kW
EER Tj = 25°C	7.18
Cdc	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.47
Cdc	0.970
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1116 kWh

## Warmer Climate



<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Model: ERLA11DW1 / EBBX11D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DW1 / EBBX11D(6V/9W)
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0



This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Model: ERLA11DW1 / EBVH11S18D(6V/9W)

Configure model	
Model name	ERLA11DW1 / EBVH11S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

General Data	
Power supply	3x400V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	236 %	161 %
Prated	10 kW	10 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.10
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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

This information was generated by the HP KEYMARK database on 23 Jun 2022

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.24 kW	1.01 kW
Annual energy consumption Q <sub>he</sub>	2228 kWh	3258 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	126 %
Prated	10 kW	10 kW
SCOP	4.63	3.23
T <sub>biv</sub>	-8 °C	-5 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.2 kW	7.9 kW
COP T <sub>j</sub> = -7°C	3.03	1.89
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.5 kW	5.4 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4462 kWh	6397 kWh

## Domestic Hot Water (DHW)



## Warmer Climate

<b>EN 16147</b>	
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

## Average Climate

<b>EN 16147</b>	
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

## Model: **ERLA11DW1 / EBVH11S18D(6V/9W) + cooling kit**

<b>Configure model</b>	
Model name	ERLA11DW1 / EBVH11S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate



<b>EN 16147</b>	
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

## Model: ERLA11DW1 / EBVX11S18D(6V/9W)

<b>Configure model</b>	
Model name	ERLA11DW1 / EBVX11S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.47 kW
Cooling capacity	11.18
EER	3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
Pdesignc	11.00 kW
SEER	5.92
Pdc Tj = 35°C	11.00 kW
EER Tj = 35°C	3.19
Pdc Tj = 30°C	8.10 kW
EER Tj = 30°C	4.94
Cdc	0.990
Pdc Tj = 25°C	5.70 kW
EER Tj = 25°C	7.18
Cdc	0.970
Pdc Tj = 20°C	5.90 kW
EER Tj = 20°C	8.47
Cdc	0.970
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Qce	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

This information was generated by the HP KEYMARK database on 23 Jun 2022

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate



<b>EN 16147</b>	
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

## Model: **ERLA11DW1 / EBVZ16S18D(6V/9W)**

<b>Configure model</b>	
Model name	ERLA11DW1 / EBVZ16S18D(6V/9W)
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	No
Cooling mode application (optional)	n/a

<b>General Data</b>	
Power supply	3x400V 50Hz

### Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

### Cooling

<b>EN 14511-2</b>	
	<b>+7°C/+12°C</b>
El input	3.47 kW

<b>EN 14825</b>	
	<b>+7°C/+12°C</b>
Poff	23 W
PTO	23 W
PSB	23 W
PCK	0 W

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	237 %	161 %
Prated	10 kW	10 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

SCOP	6.00	4.09
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.2 kW	9.0 kW
COP Tj = +2°C	3.80	2.23
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.67
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.80	2.40
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Q <sub>he</sub>	2228 kWh	3262 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	182 %	131 %
Prated	10 kW	10 kW
SCOP	4.61	3.23
T <sub>biv</sub>	-8 °C	-5 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	9.2 kW	7.9 kW
COP T <sub>j</sub> = -7°C	3.03	1.89
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +2°C	5.5 kW	5.4 kW

This information was generated by the HP KEYMARK database on 23 Jun 2022

COP Tj = +2°C	4.35	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.69	4.79
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.47	6.38
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.9 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.72	1.68
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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4479 kWh	6405 kWh

## Domestic Hot Water (DHW)

## Warmer Climate

<b>EN 16147</b>	
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

## Average Climate

<b>EN 16147</b>	
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

# Model: **ERLA11DW1 / EBVZ16S18D(6V/9W) + cooling kit**

<b>Configure model</b>	
Model name	ERLA11DW1 / EBVZ16S18D(6V/9W) + cooling kit
Application	Heating + DHW + low temp
Units	Indoor + Outdoor
Climate Zone	Warmer Climate
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

<b>General Data</b>	
Power supply	3x400V 50Hz

## Heating

<b>EN 14511-2</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Heat output	10.56 kW	10.64 kW
El input	2.19 kW	3.62 kW
COP	4.83	2.94

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

## Cooling



**EN 14511-2****+7°C/+12°C**

El input

3.47 kW

Cooling capacity

11.18

EER

3.22

**EN 14825**

This information was generated by the HP KEYMARK database on 23 Jun 2022

	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.00 kW
SEER	5.92
P <sub>dc Tj = 35°C</sub>	11.00 kW
EER T <sub>j = 35°C</sub>	3.19
P <sub>dc Tj = 30°C</sub>	8.10 kW
EER T <sub>j = 30°C</sub>	4.94
C <sub>dc</sub>	0.990
P <sub>dc Tj = 25°C</sub>	5.70 kW
EER T <sub>j = 25°C</sub>	7.18
C <sub>dc</sub>	0.970
P <sub>dc Tj = 20°C</sub>	5.90 kW
EER T <sub>j = 20°C</sub>	8.47
C <sub>dc</sub>	0.970
P <sub>off</sub>	23 W
PTO	23 W
PSB	23 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	1116 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	248 %	166 %
Prated	10 kW	10 kW
SCOP	6.28	4.23
Tbiv	3 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	9.8 kW	9.0 kW
COP Tj = +2°C	3.64	2.24
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	6.7 kW	6.2 kW
COP Tj = +7°C	5.70	3.74
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.2 kW	5.0 kW
COP Tj = 12°C	7.87	5.68
Cdh Tj = +12 °C	1.0	1.0

Pdh Tj = Tbiv	9.2 kW	8.5 kW
COP Tj = Tbiv	3.81	2.41
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	9.76 kW	8.99 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.64	2.24
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	0.24 kW	1.01 kW
Annual energy consumption Qhe	2126 kWh	3157 kWh

## Average Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Sound power level indoor	44.0 dB(A)	44.0 dB(A)
Sound power level outdoor	62.0 dB(A)	62.0 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>

This information was generated by the HP KEYMARK database on 23 Jun 2022

$\eta_s$	186 %	128 %
Prated	10 kW	10 kW
SCOP	4.72	3.27
Tbiv	-8 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.2 kW	7.9 kW
COP Tj = -7°C	3.03	1.89
Cdh Tj = -7 °C	1.0	1.0
Pdh Tj = +2°C	5.5 kW	5.4 kW
COP Tj = +2°C	4.37	3.25
Cdh Tj = +2 °C	1.0	1.0
Pdh Tj = +7°C	4.6 kW	4.4 kW
COP Tj = +7°C	6.74	4.81
Cdh Tj = +7 °C	1.0	1.0
Pdh Tj = 12°C	5.4 kW	5.3 kW
COP Tj = 12°C	8.54	6.41
Cdh Tj = +12 °C	1.0	1.0
Pdh Tj = Tbiv	9.2 kW	8.2 kW
COP Tj = Tbiv	3.01	1.96
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.4 kW	6.8 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.73	1.68

This information was generated by the HP KEYMARK database on 23 Jun 2022

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	1.6 kW	3.2 kW
Annual energy consumption Qhe	4378 kWh	6312 kWh

## Domestic Hot Water (DHW)

### Warmer Climate

<b>EN 16147</b>	
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

### Average Climate

<b>EN 16147</b>	
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