

## Subtype DAIKIN ALTHERMA 3 R ECH2O 08KW (500L) (/A)

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 ECH2O 08KW (500L) (/A)
Registration number	011-1W0267
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	17.08.2018
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Wärmepumpen-Testzentrum (WPZ), CH

## Model ERGA08EVA / ESH(B)08P50E

Model name	ERGA08EVA / ESH(B)08P50E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

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

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	125 %
COP	3.06
Heating up time	2:41 h:min
Standby power input	25.3 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	227.9 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	7.5 kW	7.5 kW
El input	1.63 kW	2.78 kW
COP	4.6	2.7

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.73 kW	
Cooling capacity	5.44	
EER	3.14	

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)

Sound power level outdoor	62 dB(A)	62 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	179 %	128 %
Prated	8 kW	7.5 kW
SCOP	4.56	3.27
Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7 kW	5.9 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.2 kW	4.1 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	3.3 kW	3 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	3.9 kW	3.7 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	6.4 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.1 kW	3.1 kW
Annual energy consumption Qhe	3625 kWh	4731 kWh
EN 14825   Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.4 kW	
SEER	5.71	
Pdc Tj = 35°C	5.44 kW	
EER Tj = 35°C	3.14	
Pdc Tj = 30°C	4.02 kW	
EER Tj = 30°C	4.84	

Cdc Tj = 30 °C	1
Pdc Tj = 25°C	2.47 kW
EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1
Pdc Tj = 20°C	2.54 kW
EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	571 kWh

## Model ERGA08EVA / EHSX(B)08P50E

Model name	ERGA08EVA / EHSX(B)08P50E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

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

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	125 %
COP	3.06
Heating up time	2:41 h:min
Standby power input	25.3 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	227.9 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	7.5 kW	7.5 kW
El input	1.63 kW	2.78 kW
COP	4.6	2.7

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.73 kW	
Cooling capacity	5.44	
EER	3.14	

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
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Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	62 dB(A)	62 dB(A)

#### EN 14825 | Average Climate

	Low temperature	Medium temperature
$\eta_s$	181 %	129 %
Prated	8 kW	7.5 kW
SCOP	4.61	3.3
Tbiv	-8 °C	-6 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7 kW	5.9 kW
COP Tj = -7°C	2.77	1.98
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.2 kW	4.1 kW
COP Tj = +2°C	4.35	3.18
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	3.3 kW	3 kW
COP Tj = +7°C	6.49	4.54
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	3.9 kW	3.7 kW
COP Tj = 12°C	8.52	6.16
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	6.4 kW
COP Tj = Tbiv	2.66	2.18
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	4.5 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.43
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.1 kW	3.1 kW
Annual energy consumption Qhe	3588 kWh	4694 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.4 kW	
SEER	5.71	
Pdc Tj = 35°C	5.44 kW	
EER Tj = 35°C	3.14	
Pdc Tj = 30°C	4.02 kW	

EER Tj = 30°C	4.84
Cdc Tj = 30 °C	1
Pdc Tj = 25°C	2.47 kW
EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1
Pdc Tj = 20°C	2.54 kW
EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	571 kWh

## Model ERGA08EVH7 / ESHH(B)08P50E

Model name	ERGA08EVH7 / ESHH(B)08P50E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Cooling mode application (optional)	n/a
Any additional heat sources	n/a

## General data

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

## Outdoor Air/Water

## EN 16147 | Average Climate

Declared load profile	XL
Efficiency $\eta_{DHW}$	125 %
COP	3.06
Heating up time	2:41 h:min
Standby power input	25.3 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	227.9 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	7.5 kW	7.5 kW
El input	1.63 kW	2.78 kW
COP	4.6	2.7

## EN 14511-2 | Cooling

	+7°C/+12°C	+18°C/+23°C
El input	1.16 kW	
Cooling capacity	6.25	
EER	5.4	

## EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)



Sound power level outdoor	62 dB(A)	62 dB(A)
EN 14825   Average Climate		
	Low temperature	Medium temperature
$\eta_s$	179 %	130 %
Prated	8 kW	8 kW
SCOP	4.56	3.32
Tbiv	-8 °C	-8 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7 kW	6.9 kW
COP Tj = -7°C	2.77	1.96
Cdh Tj = -7 °C	1	
Pdh Tj = +2°C	4.2 kW	4.4 kW
COP Tj = +2°C	4.35	3.2
Cdh Tj = +2 °C	1	1
Pdh Tj = +7°C	3.3 kW	3.3 kW
COP Tj = +7°C	6.49	4.64
Cdh Tj = +7 °C	1	1
Pdh Tj = 12°C	3.9 kW	4.1 kW
COP Tj = 12°C	8.52	6.22
Cdh Tj = +12 °C	1	1
Pdh Tj = Tbiv	7.5 kW	7.5 kW
COP Tj = Tbiv	2.66	1.9
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.9 kW	7.1 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.41	1.64
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.1 kW	0.94 kW
Annual energy consumption Qhe	3625 kWh	4975 kWh

EN 14825   Cooling		
	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.4 kW	
SEER	5.71	
Pdc Tj = 35°C	5.44 kW	
EER Tj = 35°C	3.14	
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Cdc Tj = 30 °C	1
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EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1
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EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1
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PCK	0 W
Annual energy consumption Qce	571 kWh

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Model name	ERGA08EVH7 / EHSX(B)08P50E
Application	Heating + DHW + low temp
Units	Indoor, Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C
Any additional heat sources	n/a

## General data

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

## Outdoor Air/Water

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COP Tj = +7°C	6.49	4.64
Cdh Tj = +7 °C	1	1
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Pdh Tj = Tbiv	7.5 kW	7.5 kW
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Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
Poff	10 W	10 W
PTO	10 W	10 W
PSB	10 W	10 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.1 kW	0.94 kW
Annual energy consumption Qhe	3588 kWh	4939 kWh

#### EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.4 kW	
SEER	5.71	
Pdc Tj = 35°C	5.44 kW	
EER Tj = 35°C	3.14	
Pdc Tj = 30°C	4.02 kW	

EER Tj = 30°C	4.84
Cdc Tj = 30 °C	1
Pdc Tj = 25°C	2.47 kW
EER Tj = 25°C	6.86
Cdc Tj = 25 °C	1
Pdc Tj = 20°C	2.54 kW
EER Tj = 20°C	8.47
Cdc Tj = 20 °C	1
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	571 kWh