

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 / EHSH(B)08P50E

Model name	ERGA08EVA / EHSH(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 ηDHW	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)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	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 ηDHW	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
η_s	181 %	129 %
P _{rated}	8 kW	7.5 kW
SCOP	4.61	3.3
T _{biv}	-8 °C	-6 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	7 kW	5.9 kW
COP T _j = -7°C	2.77	1.98
Cd _h T _j = -7 °C	1	
P _{dh Tj = +2°C}	4.2 kW	4.1 kW
COP T _j = +2°C	4.35	3.18
Cd _h T _j = +2 °C	1	1
P _{dh Tj = +7°C}	3.3 kW	3 kW
COP T _j = +7°C	6.49	4.54
Cd _h T _j = +7 °C	1	1
P _{dh Tj = 12°C}	3.9 kW	3.7 kW
COP T _j = 12°C	8.52	6.16
Cd _h T _j = +12 °C	1	1
P _{dh Tj = Tbiv}	7.5 kW	6.4 kW
COP T _j = Tbiv	2.66	2.18
P _{dh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh}	6.9 kW	4.5 kW
COP T _j = TOL or COP T _j = Tdesignh if TOL < Tdesignh	2.41	1.43
Cd _h T _j = TOL or P _{dh Tj = Tdesignh if TOL < Tdesignh}	1	1
WTOL	35 °C	55 °C
P _{off}	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 Q _{he}	3588 kWh	4694 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	5.4 kW	
SEER	5.71	
P _{dc Tj = 35°C}	5.44 kW	
EER T _j = 35°C	3.14	
P _{dc 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 / EHSH(B)08P50E

Model name	ERGA08EVH7 / EHSH(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 η_{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)
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EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	179 %	130 %
P _{rated}	8 kW	8 kW
SCOP	4.56	3.32
T _{biv}	-8 °C	-8 °C
TOL	-10 °C	-10 °C
P _{dh Tj = -7°C}	7 kW	6.9 kW
COP T _{j = -7°C}	2.77	1.96
C _{dh Tj = -7 °C}	1	
P _{dh Tj = +2°C}	4.2 kW	4.4 kW
COP T _{j = +2°C}	4.35	3.2
C _{dh Tj = +2 °C}	1	1
P _{dh Tj = +7°C}	3.3 kW	3.3 kW
COP T _{j = +7°C}	6.49	4.64
C _{dh Tj = +7 °C}	1	1
P _{dh Tj = 12°C}	3.9 kW	4.1 kW
COP T _{j = 12°C}	8.52	6.22
C _{dh Tj = +12 °C}	1	1
P _{dh Tj = T_{biv}}	7.5 kW	7.5 kW
COP T _{j = T_{biv}}	2.66	1.9
P _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	6.9 kW	7.1 kW
COP T _{j = TOL or COP T_{j = T_{designh}} if TOL < T_{designh}}	2.41	1.64
C _{dh Tj = TOL or P_{dh Tj = T_{designh}} if TOL < T_{designh}}	1	1
WTOL	35 °C	55 °C
P _{off}	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 Q _{he}	3625 kWh	4975 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	5.4 kW	
SEER	5.71	
P _{dc Tj = 35°C}	5.44 kW	
EER T _{j = 35°C}	3.14	
P _{dc Tj = 30°C}	4.02 kW	
EER T _{j = 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 / EHSX(B)08P50E

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

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	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)
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	Low temperature	Medium temperature
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Cd _h T _j = -7 °C	1	
P _{dh Tj = +2°C}	4.2 kW	4.4 kW
COP T _j = +2°C	4.35	3.2
Cd _h T _j = +2 °C	1	1
P _{dh Tj = +7°C}	3.3 kW	3.3 kW
COP T _j = +7°C	6.49	4.64
Cd _h T _j = +7 °C	1	1
P _{dh Tj = 12°C}	3.9 kW	4.1 kW
COP T _j = 12°C	8.52	6.22
Cd _h T _j = +12 °C	1	1
P _{dh Tj = Tbiv}	7.5 kW	7.5 kW
COP T _j = Tbiv	2.66	1.9
P _{dh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh}	6.9 kW	7.1 kW
COP T _j = TOL or COP T _j = Tdesignh if TOL < Tdesignh	2.41	1.64
Cd _h T _j = TOL or P _{dh Tj} = Tdesignh if TOL < Tdesignh	1	1
WTOL	35 °C	55 °C
P _{off}	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 Q _{he}	3588 kWh	4939 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	5.4 kW	
SEER	5.71	
P _{dc Tj = 35°C}	5.44 kW	
EER T _j = 35°C	3.14	
P _{dc 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