

Subtype DAIKIN ALTHERMA 3 R ECH2O 04KW (300L) (/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 04KW (300L) (/A)
Registration number	011-1W0262
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 ERGA04EV / EHSH(B)04P30E**

Model name	ERGA04EV / EHSH(B)04P30E
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	L
Efficiency ηDHW	118 %
COP	2.80
Heating up time	1:34 h:min
Standby power input	40.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	140 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	4.30 kW	4.90 kW
El input	0.85 kW	1.85 kW
COP	5.10	2.65

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	1.36 kW	
Cooling capacity	4.52	
EER	3.32	

**EN 12102-1 | Average Climate**

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

Sound power level outdoor	58 dB(A)	58 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	176 %	127 %
P <sub>rated</sub>	6.0 kW	6.0 kW
SCOP	4.48	3.26
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	5.5 kW	5.3 kW
COP T <sub>j</sub> = -7°C	2.90	1.97
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	
P <sub>dh</sub> T <sub>j</sub> = +2°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = +2°C	4.33	3.23
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.2 kW	3.0 kW
COP T <sub>j</sub> = +7°C	6.19	4.40
C <sub>dh</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = 12°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = 12°C	7.78	6.10
C <sub>dh</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	5.5 kW	5.3 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	1.97
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.2 kW	4.0 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.56	1.37
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	1.00	1.00
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.8 kW	2.0 kW
Annual energy consumption Q <sub>he</sub>	2766 kWh	3806 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	4.50 kW	
SEER	5.66	
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.52 kW	
EER T <sub>j</sub> = 35°C	3.32	
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.14 kW	
EER T <sub>j</sub> = 30°C	5.11	

Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

**Model ERGA04EV / EHSX(B)04P30E**

Model name	ERGA04EV / EHSX(B)04P30E
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	L
Efficiency ηDHW	118 %
COP	2.80
Heating up time	1:34 h:min
Standby power input	40.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	140 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	4.30 kW	4.90 kW
El input	0.85 kW	1.85 kW
COP	5.10	2.65

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	1.36 kW	
Cooling capacity	4.52	
EER	3.32	

**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	58 dB(A)	58 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	179 %	129 %
P <sub>rated</sub>	6.0 kW	6.0 kW
SCOP	4.54	3.29
T <sub>biv</sub>	-7 °C	-7 °C
T <sub>OL</sub>	-10 °C	-10 °C
P <sub>dh T<sub>j</sub></sub> = -7°C	5.5 kW	5.3 kW
COP T <sub>j</sub> = -7°C	2.90	1.97
Cd <sub>h</sub> T <sub>j</sub> = -7 °C	1.0	
P <sub>dh T<sub>j</sub></sub> = +2°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = +2°C	4.33	3.23
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	3.2 kW	3.0 kW
COP T <sub>j</sub> = +7°C	6.19	4.40
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = 12°C	7.78	6.10
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	5.5 kW	5.3 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	1.97
P <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	5.2 kW	4.0 kW
COP T <sub>j</sub> = T <sub>OL</sub> or COP T <sub>j</sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	2.56	1.37
Cd <sub>h</sub> T <sub>j</sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	1.00	1.00
WT <sub>OL</sub>	35 °C	55 °C
P <sub>off</sub>	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	0.8 kW	2.0 kW
Annual energy consumption Q <sub>he</sub>	2729 kWh	3769 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	4.50 kW	
SEER	5.66	
P <sub>dc T<sub>j</sub></sub> = 35°C	4.52 kW	
EER T <sub>j</sub> = 35°C	3.32	
P <sub>dc T<sub>j</sub></sub> = 30°C	3.14 kW	

EER Tj = 30°C	5.11
Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

**Model ERGA04EVA / EHSH(B)04P30E**

Model name	ERGA04EVA / EHSH(B)04P30E
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	L
Efficiency ηDHW	118 %
COP	2.80
Heating up time	1:34 h:min
Standby power input	40.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	140 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	4.30 kW	4.90 kW
El input	0.85 kW	1.85 kW
COP	5.10	2.65

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	1.36 kW	
Cooling capacity	4.52	
EER	3.32	

**EN 12102-1 | Average Climate**

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

Sound power level outdoor	58 dB(A)	58 dB(A)
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**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	176 %	127 %
P <sub>rated</sub>	6.0 kW	6.0 kW
SCOP	4.48	3.26
T <sub>biv</sub>	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P <sub>dh</sub> T <sub>j</sub> = -7°C	5.5 kW	5.3 kW
COP T <sub>j</sub> = -7°C	2.90	1.97
C <sub>dh</sub> T <sub>j</sub> = -7 °C	1.0	
P <sub>dh</sub> T <sub>j</sub> = +2°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = +2°C	4.33	3.23
C <sub>dh</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = +7°C	3.2 kW	3.0 kW
COP T <sub>j</sub> = +7°C	6.19	4.40
C <sub>dh</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = 12°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = 12°C	7.78	6.10
C <sub>dh</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh</sub> T <sub>j</sub> = T <sub>biv</sub>	5.5 kW	5.3 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	1.97
P <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	5.2 kW	4.0 kW
COP T <sub>j</sub> = TOL or COP T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	2.56	1.37
C <sub>dh</sub> T <sub>j</sub> = TOL or P <sub>dh</sub> T <sub>j</sub> = T <sub>designh</sub> if TOL < T <sub>designh</sub>	1.00	1.00
WTOL	35 °C	55 °C
P <sub>off</sub>	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	0.8 kW	2.0 kW
Annual energy consumption Q <sub>he</sub>	2766 kWh	3806 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	4.50 kW	
SEER	5.66	
P <sub>dc</sub> T <sub>j</sub> = 35°C	4.52 kW	
EER T <sub>j</sub> = 35°C	3.32	
P <sub>dc</sub> T <sub>j</sub> = 30°C	3.14 kW	
EER T <sub>j</sub> = 30°C	5.11	

Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

**Model ERGA04EVA / EHSX(B)04P30E**

Model name	ERGA04EVA / EHSX(B)04P30E
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	L
Efficiency ηDHW	118 %
COP	2.80
Heating up time	1:34 h:min
Standby power input	40.4 W
Reference hot water temperature	44.6 °C
Mixed water at 40°C	140 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	4.30 kW	4.90 kW
El input	0.85 kW	1.85 kW
COP	5.10	2.65

**EN 14511-2 | Cooling**

	+7°C/+12°C	+18°C/+23°C
El input	1.36 kW	
Cooling capacity	4.52	
EER	3.32	

**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	58 dB(A)	58 dB(A)

**EN 14825 | Average Climate**

	Low temperature	Medium temperature
$\eta_s$	179 %	129 %
P <sub>rated</sub>	6.0 kW	6.0 kW
SCOP	4.54	3.29
T <sub>biv</sub>	-7 °C	-7 °C
T <sub>OL</sub>	-10 °C	-10 °C
P <sub>dh T<sub>j</sub></sub> = -7°C	5.5 kW	5.3 kW
COP T <sub>j</sub> = -7°C	2.90	1.97
Cd <sub>h</sub> T <sub>j</sub> = -7 °C	1.0	
P <sub>dh T<sub>j</sub></sub> = +2°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = +2°C	4.33	3.23
Cd <sub>h</sub> T <sub>j</sub> = +2 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = +7°C	3.2 kW	3.0 kW
COP T <sub>j</sub> = +7°C	6.19	4.40
Cd <sub>h</sub> T <sub>j</sub> = +7 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = 12°C	3.3 kW	3.3 kW
COP T <sub>j</sub> = 12°C	7.78	6.10
Cd <sub>h</sub> T <sub>j</sub> = +12 °C	1.0	1.0
P <sub>dh T<sub>j</sub></sub> = T <sub>biv</sub>	5.5 kW	5.3 kW
COP T <sub>j</sub> = T <sub>biv</sub>	2.90	1.97
P <sub>dh T<sub>j</sub></sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	5.2 kW	4.0 kW
COP T <sub>j</sub> = T <sub>OL</sub> or COP T <sub>j</sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	2.56	1.37
Cd <sub>h</sub> T <sub>j</sub> = T <sub>OL</sub> or P <sub>dh T<sub>j</sub></sub> = T <sub>designh</sub> if T <sub>OL</sub> < T <sub>designh</sub>	1.00	1.00
WT <sub>OL</sub>	35 °C	55 °C
P <sub>off</sub>	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	0.8 kW	2.0 kW
Annual energy consumption Q <sub>he</sub>	2729 kWh	3769 kWh

**EN 14825 | Cooling**

	+7°C/+12°C	+18°C/+23°C
P <sub>designc</sub>	4.50 kW	
SEER	5.66	
P <sub>dc T<sub>j</sub></sub> = 35°C	4.52 kW	
EER T <sub>j</sub> = 35°C	3.32	
P <sub>dc T<sub>j</sub></sub> = 30°C	3.14 kW	

EER Tj = 30°C	5.11
Cdc Tj = 30 °C	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc Tj = 25 °C	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc Tj = 20 °C	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh