

Subtype DAIKIN ALTHERMA 3 R 7 F 4KW (230L)

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 7 F 4KW (230L)
Registration number	011-1W0366
Heat Pump Type	Outdoor Air/Water
Refrigerant	R32
Mass of Refrigerant	1.5 kg
Certification Date	09.04.2020
Testing basis	HP KEYMARK certification scheme rules rev. 14
Testing laboratory	Universität Stuttgart, Prüfstelle HLK am Institut für Gebäudeenergetik, Thermotechnik und Energiespeicherung (IGTE), DE

Model ERGA04EV7 / EHVH04S23E6V

Model name	ERGA04EV7 / EHVH04S23E6V
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}	105 %
COP	2.57
Heating up time	1:47 h:min
Standby power input	30.8 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	288 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	4.36 kW	4.90 kW
El input	0.83 kW	1.85 kW
COP	5.23	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	42 dB(A)	42 dB(A)

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

	Low temperature	Medium temperature
η_s	192 %	127 %
P _{rated}	6.0 kW	6.0 kW
SCOP	4.88	3.26
T _{biv}	-7 °C	-7 °C
TOL	-10 °C	-10 °C
P _{dh} T _j = -7°C	6.2 kW	5.3 kW
COP T _j = -7°C	3.23	1.97
C _{dh} T _j = -7 °C	1.00	1.0
P _{dh} T _j = +2°C	3.7 kW	3.3 kW
COP T _j = +2°C	4.94	3.23
C _{dh} T _j = +2 °C	1.0	1.0
P _{dh} T _j = +7°C	3.2 kW	3.0 kW
COP T _j = +7°C	6.19	4.40
C _{dh} T _j = +7 °C	1.0	1.0
P _{dh} T _j = 12°C	3.3 kW	3.3 kW
COP T _j = 12°C	7.78	6.10
C _{dh} T _j = +12 °C	1.0	1.0
P _{dh} T _j = T _{biv}	6.2 kW	5.3 kW
COP T _j = T _{biv}	3.23	1.97
P _{dh} T _j = TOL or P _{dh} T _j = T _{designh} if TOL < T _{designh}	5.2 kW	4.0 kW
COP T _j = TOL or COP T _j = T _{designh} if TOL < T _{designh}	2.56	1.37
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	0.8 kW	2.0 kW
Annual energy consumption Q _{he}	2538 kWh	3806 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	
SEER	5.66	
P _{dc} T _j = 35°C	4.52 kW	
EER T _j = 35°C	3.32	
P _{dc} T _j = 30°C	3.14 kW	
EER T _j = 30°C	5.11	
C _{dc} T _j = 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 ERGA04EV7 / EHVX04S23E3V

Model name	ERGA04EV7 / EHVX04S23E3V
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 η_{DHW}	106 %
COP	2.60
Heating up time	1:47 h:min
Standby power input	26.8 W
Reference hot water temperature	52.0 °C
Mixed water at 40°C	288 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	4.36 kW	4.90 kW
El input	0.83 kW	1.85 kW
COP	5.23	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	42 dB(A)	42 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	195 %	129 %
P _{rated}	6.0 kW	6.0 kW
SCOP	4.96	3.29
T _{biv}	-7 °C	-7 °C
T _{OL}	-10 °C	-10 °C
P _{dh T_j} = -7°C	6.2 kW	5.3 kW
COP T _j = -7°C	3.23	1.97
C _{dh T_j} = -7 °C	1.00	1.0
P _{dh T_j} = +2°C	3.7 kW	3.3 kW
COP T _j = +2°C	4.94	3.23
C _{dh T_j} = +2 °C	1.0	1.0
P _{dh T_j} = +7°C	3.2 kW	3.0 kW
COP T _j = +7°C	6.19	4.40
C _{dh T_j} = +7 °C	1.0	1.0
P _{dh T_j} = 12°C	3.3 kW	3.3 kW
COP T _j = 12°C	7.78	6.10
C _{dh T_j} = +12 °C	1.0	1.0
P _{dh T_j} = T _{biv}	6.2 kW	5.3 kW
COP T _j = T _{biv}	3.23	1.97
P _{dh T_j} = T _{OL} or P _{dh T_j} = T _{designh} if T _{OL} < T _{designh}	5.2 kW	4.0 kW
COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.56	1.37
WT _{OL}	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	0.8 kW	2.0 kW
Annual energy consumption Q _{he}	2501 kWh	3769 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
P _{designc}	4.50 kW	
SEER	5.66	
P _{dc T_j} = 35°C	4.52 kW	
EER T _j = 35°C	3.32	
P _{dc T_j} = 30°C	3.14 kW	
EER T _j = 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 ERGA04EV7 / EHVX04S23E6V(G)

Model name	ERGA04EV7 / EHVX04S23E6V(G)
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

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COP T _j = T _{OL} or COP T _j = T _{designh} if T _{OL} < T _{designh}	2.56	1.37
WT _{OL}	35 °C	55 °C
P _{off}	10 W	10 W
PTO	10 W	10 W
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