This information was generated by the HP KEYMARK database on 17 Dec 2020

Summary of	DAIKIN ALTHERMA 3 R ECH2O 4KW (500L) (/A)	Reg. No.	011-1W0263
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		
Name of testing laboratory	Wärmepumpen-Testzentrum WPZ		
Subtype title	DAIKIN ALTHERMA 3 R ECH2O 4KW (500L) (/A)		
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. 7		

Model: ERGA04DV / EHSX04P50D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	179 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.54	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.50 kW	5.30 kW
COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
Cdh	1.00	1.00

Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.78	6.10
Cdh	1.00	1.00
Pdh Tj = Tbiv	5.50 kW	5.30 kW
COP Tj = Tbiv	2.90	1.97
Pdh Tj = TOL	5.20 kW	4.00 kW
COP Tj = TOL	2.56	1.37
Cdh	1.00	1.00
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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	106 %
COP	2.57
Heating up time	2:47 h:min
Standby power input	38.2 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	237 l

Model: ERGA04DV / EHSXB04P50D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

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EN 12102-1		
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EN 14825		
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COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
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Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
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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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.66
Heating up time	2:29 h:min
Standby power input	42.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	211 l

Model: ERGA04DVA / EHSX04P50D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
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COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
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Pdh Tj = 12°C	3.30 kW	3.30 kW
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Pdh Tj = Tbiv	5.50 kW	5.30 kW
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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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	106 %
COP	2.57
Heating up time	2:47 h:min
Standby power input	38.2 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	237 l

Model: ERGA04DVA / EHSXB04P50D

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
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EN 14825		
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η_s	179 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.54	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.50 kW	5.30 kW
COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
Cdh	1.00	1.00

Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.78	6.10
Cdh	1.00	1.00
Pdh Tj = Tbiv	5.50 kW	5.30 kW
COP Tj = Tbiv	2.90	1.97
Pdh Tj = TOL	5.20 kW	4.00 kW
COP Tj = TOL	2.56	1.37
Cdh	1.00	1.00
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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.66
Heating up time	2:29 h:min
Standby power input	42.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	211 l

Model: ERGA04EV / EHSX04P50D3

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.54	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.50 kW	5.30 kW
COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
Cdh	1.00	1.00

Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.78	6.10
Cdh	1.00	1.00
Pdh Tj = Tbiv	5.50 kW	5.30 kW
COP Tj = Tbiv	2.90	1.97
Pdh Tj = TOL	5.20 kW	4.00 kW
COP Tj = TOL	2.56	1.37
Cdh	1.00	1.00
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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	4.50 kW
SEER	5.66
Pdc Tj = 35°C	4.52 kW
EER Tj = 35°C	3.32
Pdc Tj = 30°C	3.14 kW
EER Tj = 30°C	5.11
Cdc	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	106 %
COP	2.57
Heating up time	2:47 h:min
Standby power input	38.2 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	237 l

Model: ERGA04EV / EHSXB04P50D3

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.54	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.50 kW	5.30 kW
COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
Cdh	1.00	1.00
Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
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Pdh Tj = 12°C	3.30 kW	3.30 kW
COP Tj = 12°C	7.78	6.10
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Pdh Tj = Tbiv	5.50 kW	5.30 kW
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Cdh	1.00	1.00
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	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Cooling

EN 14511-2

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

EN 14825

	+7°C/+12°C
Pdesignc	4.50 kW
SEER	5.66
Pdc Tj = 35°C	4.52 kW
EER Tj = 35°C	3.32
Pdc Tj = 30°C	3.14 kW
EER Tj = 30°C	5.11
Cdc	1.0
Pdc Tj = 25°C	2.43 kW
EER Tj = 25°C	6.69
Cdc	1.0
Pdc Tj = 20°C	2.50 kW
EER Tj = 20°C	8.24
Cdc	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

Domestic Hot Water (DHW)

Average Climate

EN 16147

Declared load profile	XL
Efficiency ηDHW	110 %
COP	2.66
Heating up time	2:29 h:min
Standby power input	42.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	211 l

Model: ERGA04EVA / EHSX04P50D3

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

Average Climate

EN 12102-1		
	Low temperature	**Medium temperature**
Sound power level indoor	39 dB(A)	39 dB(A)
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EN 14825		
	Low temperature	**Medium temperature**
η_s	179 %	129 %
Prated	6.00 kW	6.00 kW
SCOP	4.54	3.29
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	5.50 kW	5.30 kW
COP Tj = -7°C	2.90	1.97
Cdh		1.00
Pdh Tj = +2°C	3.30 kW	3.30 kW
COP Tj = +2°C	4.33	3.23
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Pdh Tj = +7°C	3.20 kW	3.00 kW
COP Tj = +7°C	6.19	4.40
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Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Cooling

EN 14825

	+7°C/+12°C
Pdesignc	4.50 kW
SEER	5.66
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EER Tj = 20°C	8.24
Cdc	1.0
Poff	10 W
PTO	10 W
PSB	10 W
PCK	0 W
Annual energy consumption Qce	480 kWh

EN 14511-2	
	+7°C/+12°C
El input	1.36 kW
Cooling capacity	4.52
EER	3.32

Domestic Hot Water (DHW)

Average Climate

EN 16147	
Declared load profile	XL
Efficiency ηDHW	106 %
COP	2.57
Heating up time	2:47 h:min
Standby power input	38.2 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	237 l

Model: ERGA04EVA / EHSXB04P50D3

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	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
Indoor water flow rate	0.74 m³/h	0.60 m³/h

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

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Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	0.80 kW	2.00 kW
Annual energy consumption Qhe	2729 kWh	3769 kWh

Cooling

EN 14511-2

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Cooling capacity	4.52
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EN 14825

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