

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

Summary of	ROTEX HPSU MONOBLOC COMPACT 16KW (500L)		Reg. No.	011-1W0274
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	IGE Institut für GebäudeEnergetik			
Subtype title	ROTEX HPSU MONOBLOC COMPACT 16KW (500L)			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R410a			
Mass Of Refrigerant	3.4 kg			

Model: RBLQ016CW1 / RKHW16MX500C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	16.00 kW	15.04 kW
El input	3.76 kW	5.37 kW
COP	4.26	2.80
Indoor water flow rate	2.75 m ³ /h	1.85 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

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EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	149 %	119 %
Prated	16.00 kW	14.00 kW
SCOP	3.80	3.06
Tbiv	-5 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	12.40 kW	12.20 kW
COP Tj = -7°C	2.33	1.78
Pdh Tj = +2°C	8.60 kW	7.60 kW
COP Tj = +2°C	3.74	3.12
Pdh Tj = +7°C	5.70 kW	4.80 kW
COP Tj = +7°C	6.77	4.40
Pdh Tj = 12°C	6.50 kW	5.40 kW
COP Tj = 12°C	8.97	6.36
Pdh Tj = Tbiv	12.10 kW	12.20 kW

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COP Tj = Tbiv	2.56	1.78
Pdh Tj = TOL	11.70 kW	13.30 kW
COP Tj = TOL	2.05	1.71
Cdh	1.00	1.00
WTOL	35 °C	55 °C
Poff	55 W	55 W
PTO	57 W	57 W
PSB	55 W	55 W
PCK	55 W	55 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: PSUP	4.40 kW	0.90 kW
Annual energy consumption Qhe	8270 kWh	8970 kWh

Domestic Hot Water (DHW)

Average Climate

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EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	86 %
COP	2.06
Heating up time	1:36 h:min
Standby power input	78.0 W
Reference hot water temperature	45.2 °C
Mixed water at 40°C	237 l

Model: RBLQ016CW1 / RKHW16MXB500C

General Data

Power supply	3x400V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	16.00 kW	15.04 kW
El input	3.76 kW	5.37 kW
COP	4.26	2.80
Indoor water flow rate	2.75 m ³ /h	1.85 m ³ /h

EN 14511-4

Operating range outdoor exchanger/indoor exchanger lower limit/lower limit	passed
Operating range outdoor exchanger/indoor exchanger upper limit/upper limit	passed
Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed

Average Climate

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TOL	-10 °C	-10 °C
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COP Tj = -7°C	2.33	1.78
Pdh Tj = +2°C	8.60 kW	7.60 kW
COP Tj = +2°C	3.74	3.12
Pdh Tj = +7°C	5.70 kW	4.80 kW
COP Tj = +7°C	6.77	4.40
Pdh Tj = 12°C	6.50 kW	5.40 kW
COP Tj = 12°C	8.97	6.36
Pdh Tj = Tbiv	12.10 kW	12.20 kW

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COP $T_j = T_{biv}$	2.56	1.78
P _{dh} $T_j = TOL$	11.70 kW	13.30 kW
COP $T_j = TOL$	2.05	1.71
C _{dh}	1.00	1.00
WTOL	35 °C	55 °C
P _{off}	55 W	55 W
P _{TO}	57 W	57 W
P _{SB}	55 W	55 W
P _{CK}	55 W	55 W
Supplementary Heater: Type of energy input	Electrical	Electrical
Supplementary Heater: P _{SUP}	4.40 kW	0.90 kW
Annual energy consumption Q _{he}	8270 kWh	8970 kWh

Domestic Hot Water (DHW)

Average Climate

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

EN 16147	
Declared load profile	XL
Efficiency η_{DHW}	86 %
COP	2.05
Heating up time	1:17 h:min
Standby power input	85.0 W
Reference hot water temperature	45.0 °C
Mixed water at 40°C	211 l