Subtype ACDC Thermal Series

Certificate Holder	Ningbo Deye Domestic Electrical Appliance Technology Co., Ltd
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ZIP	315300
City	Cixi, Ningbo, Zhejiang
Country	CN
Certification Body	DIN CERTCO Gesellschaft für Konformitätsbewertung mbH
Subtype title	ACDC Thermal Series
Registration number	011-1W0988
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1.43 kg
Certification Date	13.02.2025
Testing basis	HP KEYMARK certification scheme rules rev. 14

Model DAWG1-ACDC-12R3EP

Model name	DAWG1-ACDC-12R3EP
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 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	12.00 kW	12.00 kW
El input	2.50 kW	3.87 kW
COP	4.80	3.10

EN 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
ηs	197 %	150 %
Prated	12.10 kW	12.10 kW
SCOP	4.99	3.82
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	10.79 kW	10.73 kW
COP Tj = -7°C	2.86	2.31
Cdh Tj = -7 °C	0.997	0.997
Pdh Tj = +2°C	6.48 kW	6.66 kW
COP Tj = +2°C	4.70	3.72
Cdh Tj = +2 °C	0.991	0.993
Pdh Tj = +7°C	4.27 kW	4.23 kW

COP Tj = +7°C	7.40	5.44
Cdh Tj = +7 °C	0.977	0.983
Pdh Tj = 12°C	3.80 kW	3.76 kW
COP Tj = 12°C	9.14	7.28
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	10.79 kW	10.73 kW
COP Tj = Tbiv	2.86	2.31
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	10.45 kW	10.49 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.78	2.09
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.997
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.60 kW	1.60 kW
Annual energy consumption Qhe	5008 kWh	6396 kWh

Model DAWG1-ACDC-16R3EP	
Model name	DAWG1-ACDC-16R3EP
Application	Heating (medium temp)
Units	Outdoor
Climate zone (for heating)	n/a
Reversibility	Yes
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 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	15.00 kW	15.00 kW
El input	3.41 kW	5.26 kW
COP	4.40	2.85

EN 12102-1 | Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	58 dB(A)	58 dB(A)

EN 14825 | Average Climate		
	Low temperature	Medium temperature
ηs	190 %	147 %
Prated	14.70 kW	14.50 kW
SCOP	4.83	3.76
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	13.24 kW	13.40 kW
COP Tj = -7°C	2.70	2.17
Cdh Tj = -7 °C	0.997	0.998
Pdh Tj = +2°C	8.02 kW	7.70 kW
COP Tj = +2°C	4.49	3.52
Cdh Tj = +2 °C	0.993	0.994
Pdh Tj = +7°C	5.14 kW	5.12 kW

COP Tj = +7°C	7.46	5.44
Cdh Tj = +7 °C	0.981	0.986
Pdh Tj = 12°C	3.80 kW	3.76 kW
COP Tj = 12°C	9.15	7.28
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	13.24 kW	13.40 kW
COP Tj = Tbiv	2.70	2.17
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	12.81 kW	12.55 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.61	2.02
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	0.997	0.998
WTOL	75 °C	75 °C
Poff	12 W	12 W
PTO	13 W	13 W
PSB	12 W	12 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.90 kW	2.00 kW
Annual energy consumption Qhe	6285 kWh	7977 kWh