

Page 1 of 7

#### This information was generated by the HP KEYMARK database on 21 Jun 2022

#### Login

Summary of	LWC 80	Reg. No.	041-K001-28	
Certificate Holder	Certificate Holder			
Name	ait-deutschland GmbH			
Address	Industriestr. 3	Zip	95359	
City	Kasendorf	Country	Germany	
Certification Body	BRE Global Limited			
Subtype title	LWC 80			
Heat Pump Type	Outdoor Air/Water			
Refrigerant	R407c			
Mass of Refrigerant	3.2 kg			
Certification Date	06.09.2019			



# **Model: LWC 80**

Configure model		
Model name	LWC 80	
Application	Heating (medium temp)	
Units	Indoor	
Climate Zone	Colder Climate + Warmer Climate	
Reversibility	No	
Cooling mode application (optional)	n/a	

General Data	
Power supply 3x400V 50Hz	

## Heating

COP

EN 14511-2			
Low temperature Medium temperature			
Heat output	8.60 kW	8.08 kW	
El input	2.05 kW	2.82 kW	

2.87

EN 14511-4	
passed	
passed	
passed	

## Average Climate

4.20



 $$\operatorname{\textit{Page}}\xspace$  3 of 7 This information was generated by the HP KEYMARK database on 21 Jun 2022

EN 12102-1			
Low temperature Medium temperature			
Sound power level indoor	55 dB(A)	55 dB(A)	
Sound power level outdoor	55 dB(A)	55 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	151 %	122 %
Prated	8.34 kW	7.85 kW
SCOP	3.84	3.15
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.32 kW	5.94 kW
COP Tj = $-7$ °C	2.98	2.07
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = $+2$ °C	8.16 kW	7.85 kW
COP Tj = +2°C	3.81	3.07
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	8.61 kW	8.54 kW
COP Tj = +7°C	4.82	4.17
Cdh Tj = +7 °C	0.99	1.00

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com





#### This information was generated by the HP KEYMARK database on 21 Jun 2022

Pdh Tj = 12°C	9.95 kW	9.93 kW
COP Tj = 12°C	5.08	4.94
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	6.74 kW	6.34 kW
COP Tj = Tbiv	3.21	2.27
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.72 kW	5.38 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.68	1.84
WTOL	60 °C	60 °C
Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	o w	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	2.62 kW	2.47 kW
Annual energy consumption Qhe	4489 kWh	5195 kWh

## Warmer Climate

EN 14825			
Low temperature Medium temperature			
$\eta_{S}$	181 %	146 %	
Prated	9.68 kW	9.17 kW	
	·		



Page 5 of 7 This information was generated by the HP KEYMARK database on 21 Jun 2022

This information was gener	ated by the Hi KETMA	ink database on 21 juli 202
SCOP	4.59	3.72
Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	8.07 kW	7.43 kW
COP Tj = +2°C	3.59	2.43
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	8.58 kW	8.40 kW
$COPTj = +7^{\circ}C$	4.61	3.37
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	9.93 kW	9.88 kW
COP Tj = 12°C	5.04	4.57
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	8.30 kW	7.86 kW
COP Tj = Tbiv	4.00	2.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.07 kW	7.43 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.59	1.00
WTOL	60 °C	60 °C
Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
РСК	0 W	o w





This information was generated by the HP REYMARK database on 21 Jun 2022			
mentary Heater: Type of energy input	Electricity	Electricity	

Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	1.61 kW	1.74 kW
Annual energy consumption Qhe	2817 kWh	3297 kWh

## Colder Climate

EN 14825			
	Low temperature	Medium temperature	
$\eta_{s}$	133 %	110 %	
Prated	5.84 kW	5.65 kW	
SCOP	3.40	2.82	
Tbiv	-15 °C	-15 °C	
TOL	-20 °C	-20 °C	
Pdh Tj = -7°C	6.37 kW	6.11 kW	
COP Tj = -7°C	3.14	2.40	
Cdh Tj = -7 °C	1.00	1.00	
Pdh Tj = +2°C	8.21 kW	8.01 kW	
COP Tj = +2°C	3.92	3.39	
Cdh Tj = +2 °C	1.00	1.00	
Pdh Tj = +7°C	8.63 kW	8.59 kW	
COP Tj = +7°C	4.88	4.53	
Cdh Tj = +7 °C	0.99	1.00	

EHPA Secretariat | Rue dArlon 63-67 | Phone: +32 2 400 10 17 | Email: secretariat@heatpumpkeymark.com | www.heatpumpkeymark.com



 $$\operatorname{\textsc{Page}}\xspace$  7 of 7 This information was generated by the HP KEYMARK database on 21 Jun 2022

	<u> </u>	
Pdh Tj = 12°C	9.94 kW	9.96 kW
COP Tj = 12°C	4.82	4.99
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	4.76 kW	4.61 kW
COP Tj = Tbiv	2.37	1.76
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.77 kW	3.92 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	1.86	1.48
WTOL	60 °C	60 °C
Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	5.84 kW	5.65 kW
Annual energy consumption Qhe	4239 kWh	4931 kWh
Pdh Tj = -15°C (if TOL<-20°C)	4.76	4.61
COP Tj = -15°C (if TOL $<$ -20°C)	2.37	1.76
Cdh Tj = -15 °C	1.00	1.00