

This information was generated by the HP KEYMARK database on 5 Mar 2021

Summary of	LWD 50A/RX	Reg. No.	041-K001-45
Certificate Holder			
Name	ait-deutschland GmbH		
Address	Industriestr. 3	Zip	95359
City	Kasendorf	Country	Germany
Certification Body	BRE Global Limited		
Subtype title	LWD 50A/RX		
Heat Pump Type	Air extérieur/Eau		
Refrigerant	R290		
Mass Of Refrigerant	2.1 kg		
Certification Date	24.11.2020		
Testing basis	HP Keymark Scheme Rules Rev 08		

## Model: LWD 50A/RX-HMD

### General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Puissance thermique	6.80 kW	6.16 kW
Puissance électrique absorbée	1.49 kW	1.78 kW
COP	4.56	3.46

### EN 14511-4

Coupure des débits des fluides caloporteurs	passed
Coupure complète de l'alimentation électrique	passed
Dégivrage	passed
Starting and operating test	passed

## Average Climate

### EN 12102-1

	Low temperature	Medium temperature
Puissance acoustique extérieure	57 dB(A)	57 dB(A)

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**EN 14825**

	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	152 %	125 %
Prated	5.78 kW	5.41 kW
SCOP	3.87	3.21
Tbiv	-5 °C	-5 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	4.45 kW	4.11 kW
COP Tj = -7°C	3.13	2.28
Cdh	1.00	1.00
Pdh Tj = +2°C	5.41 kW	5.26 kW
COP Tj = +2°C	3.90	3.19
Cdh	0.99	0.99
Pdh Tj = +7°C	6.89 kW	6.73 kW
COP Tj = +7°C	4.88	4.29
Cdh	0.99	0.99
Pdh Tj = 12°C	7.61 kW	7.58 kW
COP Tj = 12°C	5.36	5.19
Cdh	0.99	0.99
Pdh Tj = Tbiv	4.67 kW	4.37 kW
COP Tj = Tbiv	3.33	2.46

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Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.12 kW	3.78 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.85	2.06
WTOL	62 °C	62 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Chauffage d'appoint: type d'énergie utilisée	electricity	electricity
Chauffage d'appoint: P <sub>SUP</sub>	1.66 kW	1.63 kW
Consommation annuelle d'électricité Q <sub>HE</sub>	3084 kWh	3485 kWh

## Warmer Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Puissance acoustique extérieure	57 dB(A)	57 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	185 %	151 %
Prated	6.95 kW	6.51 kW
SCOP	4.69	3.85

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Tbiv	4 °C	4 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	5.36 kW	5.07 kW
COP Tj = +2°C	3.67	2.58
Cdh	1.00	1.00
Pdh Tj = +7°C	6.83 kW	6.43 kW
COP Tj = +7°C	4.73	3.53
Cdh	0.99	0.99
Pdh Tj = 12°C	7.58 kW	7.47 kW
COP Tj = 12°C	5.48	4.96
Cdh	0.99	0.99
Pdh Tj = Tbiv	5.96 kW	5.58 kW
COP Tj = Tbiv	4.16	2.92
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.36 kW	5.07 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	3.67	2.58
WTOL	62 °C	62 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Chauffage d'appoint: type d'énergie utilisée	electricity	electricity

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Chauffage d'appoint: $P_{SUP}$	1.59 kW	1.44 kW
Consommation annuelle d'électricité $Q_{HE}$	1978 kWh	2259 kWh

## Colder Climate

<b>EN 12102-1</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
Puissance acoustique extérieure	57 dB(A)	57 dB(A)

<b>EN 14825</b>		
	<b>Low temperature</b>	<b>Medium temperature</b>
$\eta_s$	135 %	114 %
Prated	5.38 kW	5.04 kW
SCOP	3.45	2.91
Tbiv	-20 °C	-20 °C
TOL	-12 °C	-12 °C
Pdh Tj = -7°C	4.50 kW	4.26 kW
COP Tj = -7°C	3.31	2.60
Cdh	0.99	0.99
Pdh Tj = +2°C	5.45 kW	5.33 kW
COP Tj = +2°C	4.04	3.47
Cdh	0.99	0.99

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Pdh Tj = +7°C	6.93 kW	6.85 kW
COP Tj = +7°C	4.95	4.61
Cdh	0.99	0.99
Pdh Tj = 12°C	7.60 kW	7.63 kW
COP Tj = 12°C	5.06	5.16
Cdh	0.99	0.99
Pdh Tj = Tbiv	3.96 kW	3.71 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	3.09 kW	2.90 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.14	1.70
WTOL	62 °C	62 °C
Poff	15 W	15 W
PTO	15 W	15 W
PSB	15 W	15 W
PCK	0 W	0 W
Chauffage d'appoint: type d'énergie utilisée	electricity	electricity
Chauffage d'appoint: P <sub>SUP</sub>	5.38 kW	5.04 kW
Consommation annuelle d'électricité Q <sub>HE</sub>	3849 kWh	4264 kWh
Pdh Tj = -15°C (if TOL<-20°C)	3.63	3.40
COP Tj = -15°C (if TOL<-20°C)	2.57	2.21
Cdh	1.00	1.00