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Summary of	WWC 100 H/X	Reg. No.	041-K001-31
Certificate Holder			
Name	ait-deutschland Gm	nbH	
Address	Industriestr. 3	Zip	95359
City	Kasendorf	Country	Germany
Certification Body	BRE Energy & Communications Division		
Name of testing laboratory	WPZ		
Subtype title	WWC 100 H/X		
Heat Pump Type	Water/Water		
Refrigerant	R407c		
Mass Of Refrigerant	2.95 kg		
Certification Date	06.09.2019		



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Model: WWC 100H/X

General Data	
Power supply	3x400V 50Hz

Heating

EN 14511-2			
	Low temperature	Medium temperature	
Heat output	11.00 kW	9.00 kW	
El input	1.96 kW	2.92 kW	
СОР	5.60	3.08	
Indoor water flow rate	2.20 m³/h	2.20 m³/h	

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

Average Climate

EN 12102-1		
	Low temperature	Medium temperature
Sound power level indoor	53 dB(A)	53 dB(A)





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EN 14825

	Low temperature	Medium temperature
η_{s}	232 %	174 %
Prated	11.00 kW	9.93 kW
SCOP	5.99	4.56
Tbiv	-10 °C	-10 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	11.02 kW	10.09 kW
COP Tj = -7°C	5.62	3.52
Cdh	1.00	1.00
Pdh Tj = +2°C	11.14 kW	10.63 kW
COP Tj = +2°C	6.01	4.51
Cdh	1.00	1.00
Pdh Tj = +7°C	11.25 kW	10.95 kW
$COP Tj = +7^{\circ}C$	6.39	5.33
Cdh	0.99	1.00
Pdh Tj = 12°C	11.35 kW	11.27 kW
COP Tj = 12°C	6.70	6.32
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.00 kW	9.93 kW
COP Tj = Tbiv	5.56	3.29

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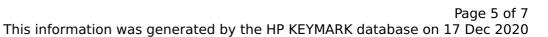


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Pdh Tj = TOL	11.00 kW	9.93 kW
COP Tj = TOL	5.56	3.29
WTOL	65 °C	65 °C
Poff	10 W	10 W
РТО	10 W	10 W
PSB	10 W	10 W
PCK	10 W	0 W
Supplementary Heater: Type of energy input	electricity	electricity
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	3796 kWh	4499 kWh

Warmer Climate

EN 14825		
	Low temperature	Medium temperature
η_{s}	233 %	176 %
Prated	11.00 kW	9.93 kW
SCOP	6.01	4.59
Tbiv	2 °C	2 °C
TOL	2 °C	2 °C
Pdh Tj = +2°C	11.00 kW	9.93 kW
COP Tj = +2°C	5.56	3.29





Cdh	1.00	1.00
Pdh Tj = +7°C	11.12 kW	10.41 kW
$COP Tj = +7^{\circ}C$	5.93	4.07
Cdh	1.00	1.00
Pdh Tj = 12°C	11.28 kW	11.05 kW
COP Tj = 12°C	6.52	5.65
Cdh	0.99	1.00
Pdh Tj = Tbiv	11.00 kW	9.93 kW
COP Tj = Tbiv	5.56	3.29
Pdh Tj = TOL	11.00 kW	9.93 kW
COP Tj = TOL	5.56	3.29
WTOL	65 °C	65 °C
Poff	10 W	10 W
PTO	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	0.00 kW	0.00 kW
Annual energy consumption Qhe	2443 kWh	2887 kWh

Colder Climate





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EN 14825

	Low temperature	Medium temperature
η_{s}	239 %	182 %
Prated	11.00 kW	9.93 kW
SCOP	6.18	4.74
Tbiv	-22 °C	-22 °C
TOL	-22 °C	-22 °C
Pdh Tj = -7°C	11.16 kW	10.52 kW
COP Tj = -7°C	6.09	4.28
Cdh	1.00	1.00
Pdh Tj = +2°C	11.25 kW	10.89 kW
COP Tj = +2°C	6.42	5.18
Cdh	0.99	1.00
Pdh Tj = +7°C	11.32 kW	11.16 kW
COP Tj = +7°C	6.66	6.00
Cdh	0.99	1.00
Pdh Tj = 12°C	11.34 kW	11.37 kW
COP Tj = 12°C	6.53	6.63
Cdh	0.99	0.99
Pdh Tj = Tbiv	11.00 kW	9.93 kW
COP Tj = Tbiv	5.56	3.29
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Pdh Tj = TOL	11.00 kW	9.93 kW
COP Tj = TOL	5.56	3.29
WTOL	65 °C	65 °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	0.00 kW	0.00 kW
Annual energy consumption Qhe	4389 kWh	5165 kWh
Pdh Tj = -15°C (if TOL<-20°C)	0.01	0.01
COP Tj = -15°C (if TOL<-20°C)	0.01	0.01
Cdh	1.00	1.00