

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

Summary of	i-SHWAK V4 10/12	Reg. No.	ICIM-PDC-000078-00
Certificate Holder			
Name	Advantix S.p.A.		
Address	Via San Giuseppe Lavoratore, 24	Zip	37040
City	Arcole Verona	Country	Italy
Certification Body	ICIM S.p.A.		
Name of testing laboratory	ReLab - Politecnico di Milano		
Subtype title	i-SHWAK V4 10/12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	3.45 kg		
Certification Date	26.05.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

Model: i-SHWAK V4 10

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	10.00 kW	9.01 kW
El input	2.30 kW	3.89 kW
COP	4.34	2.32
Indoor water flow rate	1.72 m ³ /h	0.97 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	64 dB(A)	64 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	161 %	123 %
Prated	6.00 kW	6.00 kW
SCOP	4.10	3.16
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	6.30 kW	5.50 kW
COP Tj = -7°C	2.59	1.65
Cdh	1.00	1.00
Pdh Tj = +2°C	4.30 kW	4.00 kW
COP Tj = +2°C	3.95	3.15
Cdh	1.00	1.00
Pdh Tj = +7°C	5.30 kW	5.00 kW
COP Tj = +7°C	5.38	4.45
Cdh	1.00	1.00

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Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	7.15	6.02
Cdh	1.00	1.00
Pdh Tj = Tbiv	6.30 kW	5.50 kW
COP Tj = Tbiv	2.59	1.65
Pdh Tj = TOL	5.60 kW	4.70 kW
COP Tj = TOL	2.44	1.25
WTOL	39 °C	39 °C
Poff	0 W	0 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	0	0
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2417 kWh	2755 kWh

Cooling

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EN 14511-2

	+7°C/+12°C
El input	2.43 kW
Indoor water flow rate	1.30 m³/h
Cooling capacity	7.56
EER	3.11

EN 14825

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	+7°C/+12°C
P _{designc}	7.56 kW
SEER	4.91
P _{dc} T _j = 35°C	7.56 kW
EER T _j = 35°C	3.11
P _{dc} T _j = 30°C	5.57 kW
EER T _j = 30°C	4.48
C _{dc}	1.0
P _{dc} T _j = 25°C	5.42 kW
EER T _j = 25°C	5.89
C _{dc}	1.0
P _{dc} T _j = 20°C	5.73 kW
EER T _j = 20°C	6.59
C _{dc}	1.0
P _{off}	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Q _{ce}	539 kWh

Model: i-SHWAK V4 12

General Data

Power supply	1x230V 50Hz
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Heating

EN 14511-2

	Low temperature	Medium temperature
Heat output	12.10 kW	10.06 kW
El input	2.95 kW	3.90 kW
COP	4.10	2.58
Indoor water flow rate	2.08 m ³ /h	1.08 m ³ /h

EN 14511-4

Shutting off the heat transfer medium flow	passed
Complete power supply failure	passed
Defrost test	passed
Starting and operating test	passed

Average Climate

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

EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	39 dB(A)	39 dB(A)
Sound power level outdoor	65 dB(A)	65 dB(A)

EN 14825

	Low temperature	Medium temperature
η_s	168 %	126 %
Prated	7.00 kW	7.00 kW
SCOP	4.28	3.23
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	7.40 kW	6.70 kW
COP Tj = -7°C	2.73	2.00
Cdh	1.00	1.00
Pdh Tj = +2°C	5.70 kW	4.70 kW
COP Tj = +2°C	4.34	3.18
Cdh	1.00	1.00
Pdh Tj = +7°C	4.00 kW	6.00 kW
COP Tj = +7°C	5.15	4.19
Cdh	1.00	1.00

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Pdh Tj = 12°C	4.70 kW	6.90 kW
COP Tj = 12°C	6.78	5.27
Cdh	1.00	1.00
Pdh Tj = Tbiv	7.40 kW	6.70 kW
COP Tj = Tbiv	2.73	2.00
Pdh Tj = TOL	6.60 kW	5.70 kW
COP Tj = TOL	2.38	1.59
WTOL	39 °C	39 °C
Poff	0 W	0 W
PTO	11 W	11 W
PSB	11 W	11 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	0	0
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2736 kWh	3267 kWh

Cooling

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EN 14511-2

	+7°C/+12°C
El input	2.74 kW
Indoor water flow rate	1.46 m³/h
Cooling capacity	8.49
EER	3.10

EN 14825

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	+7°C/+12°C
P _{designc}	8.49 kW
SEER	4.93
P _{dc} T _j = 35°C	8.49 kW
EER T _j = 35°C	3.10
P _{dc} T _j = 30°C	6.26 kW
EER T _j = 30°C	4.48
C _{dc}	1.0
P _{dc} T _j = 25°C	5.42 kW
EER T _j = 25°C	5.89
C _{dc}	1.0
P _{dc} T _j = 20°C	5.73 kW
EER T _j = 20°C	6.59
C _{dc}	1.0
P _{off}	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Q _{ce}	603 kWh