

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

Summary of	i-SHWAK V4 14	Reg. No.	ICIM-PDC-000079-00
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 14		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410a		
Mass Of Refrigerant	4.4 kg		
Certification Date	26.05.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

## Model: i-SHWAK V4 14

### General Data

Power supply	1x230V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	13.76 kW	12.53 kW
El input	3.26 kW	4.89 kW
COP	4.22	2.56
Indoor water flow rate	2.37 m <sup>3</sup> /h	1.35 m <sup>3</sup> /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

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### EN 12102-1

	Low temperature	Medium temperature
Sound power level indoor	40 dB(A)	40 dB(A)
Sound power level outdoor	68 dB(A)	68 dB(A)

### EN 14825

	Low temperature	Medium temperature
$\eta_s$	153 %	117 %
Prated	10.00 kW	9.00 kW
SCOP	3.89	3.01
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.70 kW	9.30 kW
COP Tj = -7°C	2.50	1.80
Cdh	1.00	1.00
Pdh Tj = +2°C	6.80 kW	5.70 kW
COP Tj = +2°C	4.08	3.04
Cdh	1.00	1.00
Pdh Tj = +7°C	4.80 kW	4.70 kW
COP Tj = +7°C	4.20	3.52
Cdh	1.00	1.00

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Pdh Tj = 12°C	6.80 kW	7.00 kW
COP Tj = 12°C	6.70	6.30
Cdh	1.00	1.00
Pdh Tj = Tbiv	9.70 kW	9.30 kW
COP Tj = Tbiv	2.50	1.80
Pdh Tj = TOL	8.90 kW	8.30 kW
COP Tj = TOL	2.20	1.51
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	3958 kWh	4883 kWh

## Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	3.70 kW
Indoor water flow rate	1.97 m³/h
Cooling capacity	11.46
EER	3.10

**EN 14825**

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	<b>+7°C/+12°C</b>
P <sub>designc</sub>	11.46 kW
SEER	4.99
P <sub>dc</sub> T <sub>j</sub> = 35°C	11.46 kW
EER T <sub>j</sub> = 35°C	3.10
P <sub>dc</sub> T <sub>j</sub> = 30°C	8.44 kW
EER T <sub>j</sub> = 30°C	4.48
C <sub>dc</sub>	1.0
P <sub>dc</sub> T <sub>j</sub> = 25°C	5.42 kW
EER T <sub>j</sub> = 25°C	5.89
C <sub>dc</sub>	1.0
P <sub>dc</sub> T <sub>j</sub> = 20°C	5.73 kW
EER T <sub>j</sub> = 20°C	6.59
C <sub>dc</sub>	1.0
P <sub>off</sub>	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	804 kWh

## Model: i-SHWAK V4 14T

### General Data

Power supply	3x400V 50Hz
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## Heating

### EN 14511-2

	Low temperature	Medium temperature
Heat output	13.76 kW	12.53 kW
El input	3.26 kW	4.89 kW
COP	4.22	2.56
Indoor water flow rate	2.37 m <sup>3</sup> /h	1.35 m <sup>3</sup> /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

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COP Tj = +7°C	4.20	3.52
Cdh	1.00	1.00



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Supplementary Heater: Type of energy input	0	0
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P <sub>dc</sub> T <sub>j</sub> = 25°C	5.42 kW
EER T <sub>j</sub> = 25°C	5.89
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P <sub>off</sub>	12 W
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Q <sub>ce</sub>	804 kWh