

Summary of	i-SHWAK V4 10/12	Reg. No.	ICIM-PDC-000078-00	
Certificate Holder				
Name	Advantix S.p.A.	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

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.00 kW	9.01 kW
El input	2.30 kW	3.89 kW
СОР	4.34	2.32
Indoor water flow rate	1.72 m³/h	0.97 m³/h

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

Average Climate



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	o w	o w
РТО	11 W	11 W
PSB	11 W	11 W
PCK	o 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

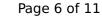
Cooling





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





This information was generated by the HP KETMARK database on 17 Dec 20		
	+7°C/+12°C	
Pdesignc	7.56 kW	
SEER	4.91	
Pdc Tj = 35°C	7.56 kW	
EER Tj = 35°C	3.11	
Pdc Tj = 30°C	5.57 kW	
EER Tj = 30°C	4.48	
Cdc	1.0	
Pdc Tj = 25°C	5.42 kW	
EER Tj = 25°C	5.89	
Cdc	1.0	
Pdc Tj = 20°C	5.73 kW	
EER Tj = 20°C	6.59	
Cdc	1.0	
Poff	12 W	
PTO	0 W	
PSB	12 W	
PCK	0 W	
Annual energy consumption Qce	539 kWh	



Model: i-SHWAK V4 12

General Data	
Power supply	1x230V 50Hz

Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	12.10 kW	10.06 kW
El input	2.95 kW	3.90 kW
СОР	4.10	2.58
Indoor water flow rate	2.08 m³/h	1.08 m³/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



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)

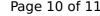
EN 14825			
	Low temperature	Medium temperature	
η_{s}	168 %	126 %	
Prated	7.00 kW	7.00 kW	
SCOP	4.28	3.23	
Tbiv	-7 °C	-7 °C	
TOL	-10 °C	-10 °C	
Pdh Tj = -7°C	7.40 kW	6.70 kW	
COP Tj = -7°C	2.73	2.00	
Cdh	1.00	1.00	
Pdh Tj = +2°C	5.70 kW	4.70 kW	
COP Tj = +2°C	4.34	3.18	
Cdh	1.00	1.00	
Pdh Tj = +7°C	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	o w	0 W
РТО	11 W	11 W
PSB	11 W	11 W
PCK	0 W	o 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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This information was generated by the Fir KE	+7°C/+12°C
Pdesignc	8.49 kW
SEER	4.93
Pdc Tj = 35°C	8.49 kW
EER Tj = 35°C	3.10
Pdc Tj = 30°C	6.26 kW
EER Tj = 30°C	4.48
Cdc	1.0
Pdc Tj = 25°C	5.42 kW
EER Tj = 25°C	5.89
Cdc	1.0
Pdc Tj = 20°C	5.73 kW
EER Tj = 20°C	6.59
Cdc	1.0
Poff	12 W
РТО	0 W
PSB	12 W
РСК	o w
Annual energy consumption Qce	603 kWh