

Subtype i-SHWAK V4 10/12

Certificate Holder	Advantix S.p.A.
Address	Via San Giuseppe Lavoratore, 24
ZIP	37040
City	Arcole Verona
Country	IT
Certification Body	ICIM S.p.A.
Subtype title	i-SHWAK V4 10/12
Registration number	ICIM-PDC-000078-00
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		
Model name	i-SHWAK V4 10	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
Phase-out Date	21.07.2024	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	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
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.43 kW	
Cooling capacity	7.56	
EER	3.11	
EN 12102-1 Average Climate		
	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 Average Climate		
	Low temperature	Medium temperature
ηs	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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	4.30 kW	4.00 kW
COP Tj = +2°C	3.95	3.15
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	5.30 kW	5.00 kW
COP Tj = +7°C	5.38	4.45
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	5.50 kW	5.30 kW
COP Tj = 12°C	7.15	6.02
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	6.30 kW	5.50 kW
COP Tj = Tbiv	2.59	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	5.60 kW	4.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2417 kWh	2755 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°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 Tj = 30 °C	1.0	
Pdc Tj = 25°C	5.42 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	1.0	
Pdc Tj = 20°C	5.73 kW	
EER Tj = 20°C	6.59	
Cdc Tj = 20 °C	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		
Model name	i-SHWAK V4 12	
Application	Heating (medium temp)	
Units	Indoor, Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
Phase-out Date	21.07.2024	
General data		
Power supply	1x230V 50Hz	
Off-peak product	n/a	
Outdoor Air/Water		
EN 14511-4 Heating		
Shutting off the heat transfer medium flow	passed	
Complete power supply failure	passed	
Defrost test	passed	
Starting and operating test	passed	
EN 14511-2 Heating		
	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
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	2.74 kW	
Cooling capacity	8.49	
EER	3.10	
EN 12102-1 Average Climate		
	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 Average Climate		
	Low temperature	Medium temperature
ηs	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 Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	5.70 kW	4.70 kW
COP Tj = +2°C	4.34	3.18
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	4.00 kW	6.00 kW
COP Tj = +7°C	5.15	4.19
Cdh Tj = +7 °C	1.00	1.00
Pdh Tj = 12°C	4.70 kW	6.90 kW
COP Tj = 12°C	6.78	5.27
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	7.40 kW	6.70 kW
COP Tj = Tbiv	2.73	2.00
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	6.60 kW	5.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	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	n/a	n/a
Supplementary Heater: PSUP	0.00 kW	0.00 kW
Annual energy consumption Qhe	2736 kWh	3267 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°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 Tj = 30 °C	1.0	
Pdc Tj = 25°C	5.42 kW	
EER Tj = 25°C	5.89	
Cdc Tj = 25 °C	1.0	
Pdc Tj = 20°C	5.73 kW	
EER Tj = 20°C	6.59	
Cdc Tj = 20 °C	1.0	
Poff	12 W	
PTO	0 W	
PSB	12 W	

PCK	0 W
Annual energy consumption Qce	603 kWh