Login

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.		
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

Configure model	
Model name	i-SHWAK V4 10
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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
COP	4.34	2.32

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	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 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

Cooling

EN 14511-2

	+7°C/+12°C
El input	2.43 kW
Cooling capacity	7.56
EER	3.11

EN 14825

	+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

Configure model	
Model name	i-SHWAK V4 12
Application	Heating (medium temp)
Units	Indoor + Outdoor
Climate Zone	n/a
Reversibility	Yes
Cooling mode application (optional)	+7°C/12°C

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
COP	4.10	2.58

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 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

Cooling

EN 14511-2

	+7°C/+12°C
El input	2.74 kW
Cooling capacity	8.49
EER	3.10

EN 14825

	+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
PTO	0 W
PSB	12 W
PCK	0 W
Annual energy consumption Qce	603 kWh