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Summary of	i-SHWAK V4 16	Reg. No.	ICIM-PDC-000080-00
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 16		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R410A		
Mass of Refrigerant	4.6 kg		
Certification Date	26.05.2020		
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		

## Model: i-SHWAK V4 16

Configure model	
Model name	i-SHWAK V4 16
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	15.21 kW	14.80 kW
El input	3.52 kW	5.35 kW
COP	4.32	2.76

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.52 kW
Cooling capacity	14.65
EER	3.24

**EN 14825**

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	<b>+7°C/+12°C</b>
P <sub>designc</sub>	14.65 kW
SEER	5.06
P <sub>dc</sub> T <sub>j</sub> = 35°C	14.65 kW
EER T <sub>j</sub> = 35°C	3.24
P <sub>dc</sub> T <sub>j</sub> = 30°C	10.79 kW
EER T <sub>j</sub> = 30°C	4.71
C <sub>dc</sub>	1.0
P <sub>dc</sub> T <sub>j</sub> = 25°C	6.93 kW
EER T <sub>j</sub> = 25°C	5.81
C <sub>dc</sub>	1.0
P <sub>dc</sub> T <sub>j</sub> = 20°C	7.03 kW
EER T <sub>j</sub> = 20°C	6.28
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>	1013 kWh

## 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
$\eta_s$	157 %	123 %
Prated	10.00 kW	9.00 kW
SCOP	4.00	3.14
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	9.80 kW	9.10 kW
COP Tj = -7°C	2.55	1.65
Cdh Tj = -7 °C	1.00	1.00
Pdh Tj = +2°C	6.00 kW	6.40 kW
COP Tj = +2°C	4.02	3.08
Cdh Tj = +2 °C	1.00	1.00
Pdh Tj = +7°C	6.90 kW	7.60 kW
COP Tj = +7°C	5.11	4.43
Cdh Tj = +7 °C	1.00	1.00

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Pdh Tj = 12°C	7.80 kW	7.90 kW
COP Tj = 12°C	5.42	6.50
Cdh Tj = +12 °C	1.00	1.00
Pdh Tj = Tbiv	9.80 kW	9.10 kW
COP Tj = Tbiv	2.55	1.65
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.70 kW	7.40 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.22	1.30
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	3888 kWh	4576 kWh

## Model: i-SHWAK V4 16T

Configure model	
Model name	i-SHWAK V4 16T
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	3x230V 50Hz

### Heating

EN 14511-2		
	Low temperature	Medium temperature
Heat output	15.21 kW	14.80 kW
El input	3.52 kW	5.35 kW
COP	4.32	2.76

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

### Cooling

**EN 14511-2**

	<b>+7°C/+12°C</b>
El input	4.52 kW
Cooling capacity	14.65
EER	3.24

**EN 14825**



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EER T <sub>j</sub> = 25°C	5.81
C <sub>dc</sub>	1.0
P <sub>dc</sub> T <sub>j</sub> = 20°C	7.03 kW
EER T <sub>j</sub> = 20°C	6.28
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>	1013 kWh

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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	3888 kWh	4576 kWh