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### This information was generated by the HP KEYMARK database on 21 Jun 2022

#### <u>Login</u>

Summary of	i-32V5 10/12	Reg. No.	ICIM-PDC-000073-00
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-32V5 10/12		
Heat Pump Type	Outdoor Air/Water		
Refrigerant	R32		
Mass of Refrigerant	2.5 kg		
Certification Date	26.05.2020	26.05.2020	
Testing basis	HP KEYMARK certification scheme rules rev. no. 7		



# Model: i-32V512

Configure model		
Model name	i-32V512	
Application	Heating (medium temp)	
Units	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	11.80 kW	11.37 kW	
El input	2.73 kW	4.10 kW	
СОР	4.32	2.78	

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

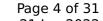
# Cooling





EN 14511-2	
+7°C/+12°C	
El input	2.79 kW
Cooling capacity	8.51
EER	3.05

#### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.43
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.000
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	0.978
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	0.972
Poff	22 W
PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	1153 kWh

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	131 %
Prated	10.00 kW	10.00 kW
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.30 kW	4.20 kW
COP Tj = +7°C	5.82	4.24
Cdh Tj = +7 °C	0.974	0.981
Pdh Tj = 12°C	4.90 kW	4.80 kW



COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
РТО	22 W	22 W
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.20 kW	1.30 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh



# Model: i-32V510

Configure model		
Model name	i-32V510	
Application	Heating (medium temp)	
Units	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	10.10 kW	9.73 kW
El input	2.28 kW	3.50 kW
СОР	4.43	2.78

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

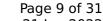
# Cooling





EN 14511-2		
+7°C/+12°C		
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

#### EN 14825





	+7°C/+12°C
Pdesignc	7.53 kW
SEER	4.34
Pdc Tj = 35°C	7.53 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	5.49 kW
EER Tj = 30°C	3.92
Cdc	0.986
Pdc Tj = 25°C	3.56 kW
EER Tj = 25°C	4.46
Cdc	0.976
Pdc Tj = 20°C	4.35 kW
EER Tj = 20°C	6.36
Cdc	0.972
Poff	22 W
PTO	0 W
PSB	28 W
PCK	o w
Annual energy consumption Qce	1040 kWh

# Average Climate



EN 12102-1		
	Low temperature	Medium temperature
Sound power level outdoor	62 dB(A)	62 dB(A)

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	178 %	135 %
Prated	9.00 kW	9.00 kW
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.30 kW	8.10 kW
COP Tj = -7°C	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
COP Tj = +7°C	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW



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COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
Poff	19 W	19 W
РТО	22 W	22 W
PSB	19 W	19 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.70 kW	0.90 kW
Annual energy consumption Qhe	4293 kWh	5462 kWh



# Model: i-32V510T

Configure model		
Model name	i-32V510T	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply 3x400V 50Hz		

## Cooling

EN 14511-2		
+7°C/+12°C		
El input	2.39 kW	
Cooling capacity	7.53	
EER	3.15	

#### EN 14825





	+7°C/+12°C
Pdesignc	7.53 kW
SEER	4.34
Pdc Tj = 35°C	7.53 kW
EER Tj = 35°C	3.15
Pdc Tj = 30°C	5.49 kW
EER Tj = 30°C	3.92
Cdc	0.986
Pdc Tj = 25°C	3.56 kW
EER Tj = 25°C	4.46
Cdc	0.976
Pdc Tj = 20°C	4.35 kW
EER Tj = 20°C	6.36
Cdc	0.972
Poff	22 W
PTO	0 W
PSB	28 W
PCK	o w
Annual energy consumption Qce	1040 kWh

## Heating



EN 14511-2		
	Low temperature	Medium temperature
Heat output	10.10 kW	9.73 kW
El input	2.28 kW	3.50 kW
СОР	4.43	2.78

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 outdoor	62 dB(A)	62 dB(A)		

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	178 %	135 %
Prated	9.00 kW	9.00 kW



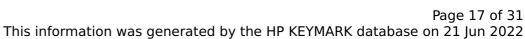


This information was generated by the HP KEYMARK database on 21 Jun 20		
SCOP	4.53	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.30 kW	8.10 kW
$COP Tj = -7^{\circ}C$	2.93	2.13
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
COP Tj = +2°C	4.32	3.41
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	4.20 kW	4.10 kW
$COP Tj = +7^{\circ}C$	6.01	4.30
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	8.08	6.36
Cdh Tj = +12 °C	0.969	0.975
Pdh Tj = Tbiv	8.30 kW	8.10 kW
COP Tj = Tbiv	2.93	2.13
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh	8.30 kW	8.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.71	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL $<$ Tdesignh		
WTOL	60 °C	60 °C
	-	+



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Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	0.70 kW	0.90 kW
Annual energy consumption Qhe	4293 kWh	5462 kWh



# **Model: i-32V512T**

Configure model		
Model name	i-32V512T	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

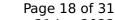
General Data		
Power supply	3x400V 50Hz	

# Cooling

CEN heat pump KEYMARK

EN 14511-2			
+7°C/+12°C			
El input	2.79 kW		
Cooling capacity	8.51		
EER	3.05		

#### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.43
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	0.988
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	0.978
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	0.972
Poff	22 W
РТО	o w
PSB	28 W
PCK	o w
Annual energy consumption Qce	1153 kWh

## Heating



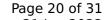
EN 14511-2			
Low temperature Medium temperature			
Heat output	11.80 kW	11.37 kW	
El input	2.73 kW	4.10 kW	
СОР	4.32	2.78	

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 outdoor	62 dB(A)	62 dB(A)		

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	176 %	131 %
Prated	10.00 kW	10.00 kW





SCOR		2 26
SCOP	4.47	3.36
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.90 kW	8.50 kW
COP Tj = -7°C	2.88	2.08
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.40 kW	5.20 kW
COP Tj = +2°C	4.31	3.35
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COPTj = +7^{\circ}C$	5.82	4.24
Cdh Tj = +7 °C	0.974	0.981
Pdh Tj = 12°C	4.90 kW	4.80 kW
COP Tj = 12°C	7.81	5.31
Cdh Tj = +12 °C	0.969	0.979
Pdh Tj = Tbiv	8.90 kW	8.50 kW
COP Tj = Tbiv	2.88	2.08
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.80 kW	8.70 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.64	1.96
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



Poff	19 W	19 W
РТО	22 W	22 W
PSB	19 W	19 W
PCK	o w	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.20 kW	1.30 kW
Annual energy consumption Qhe	4630 kWh	5941 kWh

# Model: i-32V5SL12

Configure model		
Model name	i-32V5SL12	
Application	Heating (medium temp)	
Units Outdoor		
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

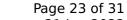
General Data		
Power supply 1x230V 50Hz		

# Cooling

CEN heat pump KEYMARK

EN 14511-2		
+7°C/+12°C		
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

#### EN 14825





	+7°C/+12°C
Pdesignc	8.51 kW
SEER	4.43
Pdc Tj = 35°C	8.51 kW
EER Tj = 35°C	3.05
Pdc Tj = 30°C	6.28 kW
EER Tj = 30°C	4.03
Cdc	1.000
Pdc Tj = 25°C	3.98 kW
EER Tj = 25°C	4.58
Cdc	0.988
Pdc Tj = 20°C	4.23 kW
EER Tj = 20°C	6.32
Cdc	0.972
Poff	22 W
PTO	o w
PSB	28 W
PCK	o w
Annual energy consumption Qce	1153 kWh

## Heating



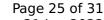
EN 14511-2			
Low temperature Medium temperature			
Heat output	7.35 kW	7.08 kW	
El input	1.52 kW	2.28 kW	
СОР	4.84	3.11	

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 outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	135 %
Prated	10.00 kW	10.00 kW





SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.70 kW	8.40 kW
$COPTj = -7^{\circ}C$	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.30 kW	5.20 kW
$COP Tj = +2^{\circ}C$	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COP Tj = +7^{\circ}C$	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C



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Poff	19 W	19 W
РТО	22 W	22 W
PSB	19 W	19 W
PCK	0 W	o w
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4453 kWh	5709 kWh



# Model: i-32V5SL12T

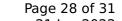
Configure model		
Model name	i-32V5SL12T	
Application	Heating (medium temp)	
Units	Outdoor	
Climate Zone	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	

General Data		
Power supply	3x400V 50Hz	

# Cooling

EN 14511-2		
	+7°C/+12°C	
El input	2.79 kW	
Cooling capacity	8.51	
EER	3.05	

#### EN 14825





This information was generated by the HP KEYMARK database on 21 Jun 2022 +7°C/+12°C **Pdesignc** 8.51 kW **SEER** 4.43  $Pdc Tj = 35^{\circ}C$ 8.51 kW 3.05 EER Tj = 35°C  $Pdc Tj = 30^{\circ}C$ 6.28 kW EER Tj = 30°C 4.03 0.988 Cdc  $Pdc Tj = 25^{\circ}C$ 3.98 kW 4.58 EER Tj = 25°C Cdc 0.978  $Pdc Tj = 20^{\circ}C$ 4.23 kW 6.32 EER Tj = 20°C Cdc 0.972 Poff 22 W PTO 0 W **PSB** 28 W **PCK** 0 W Annual energy consumption Qce 1153 kWh

### Heating





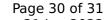
EN 14511-2			
	Low temperature	Medium temperature	
Heat output	7.35 kW	7.08 kW	
El input	1.52 kW	2.28 kW	
СОР	4.84	3.11	

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 outdoor	53 dB(A)	53 dB(A)	

EN 14825		
	Low temperature	Medium temperature
$\eta_{s}$	180 %	135 %
Prated	10.00 kW	10.00 kW





SCOP	4.58	3.45
Tbiv	-7 °C	-7 °C
TOL	-20 °C	-15 °C
Pdh Tj = -7°C	8.70 kW	8.40 kW
COP Tj = -7°C	2.90	2.09
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = $+2$ °C	5.30 kW	5.20 kW
COP Tj = +2°C	4.42	3.44
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = $+7^{\circ}$ C	4.30 kW	4.20 kW
$COP Tj = +7^{\circ}C$	6.14	4.47
Cdh Tj = +7 °C	0.973	0.980
Pdh Tj = 12°C	4.80 kW	4.80 kW
COP Tj = 12°C	8.00	5.44
Cdh Tj = +12 °C	0.969	0.978
Pdh Tj = Tbiv	8.70 kW	8.40 kW
COP Tj = Tbiv	2.90	2.09
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.40 kW	8.30 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.55	1.89
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh		
WTOL	60 °C	60 °C
	1	



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Poff	19 W	19 W
PTO	22 W	22 W
PSB	19 W	19 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	n/a	n/a
Supplementary Heater: PSUP	1.60 kW	1.70 kW
Annual energy consumption Qhe	4453 kWh	5709 kWh