

Subtype i-290 0106

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-290 0106
Registration number	ICIM-PDC-000207
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	0.43 kg
Certification Date	31.08.2023
Testing basis	V12

Model i-290 0106		
Model name	i-290 0106	
Application	Heating (medium temp)	
Units	Outdoor	
Climate zone (for heating)	n/a	
Reversibility	Yes	
Cooling mode application (optional)	+7°C/12°C	
Any additional heat sources	n/a	
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	6.24 kW	5.97 kW
El input	1.31 kW	1.91 kW
COP	4.76	3.12
EN 14511-2 Cooling		
	+7°C/+12°C	+18°C/+23°C
El input	1.95 kW	
Cooling capacity	5.43	
EER	2.79	
EN 12102-1 Average Climate		
	Low temperature	Medium temperature
Sound power level outdoor	57 dB(A)	57 dB(A)
EN 14825 Average Climate		
	Low temperature	Medium temperature
ηs	186 %	133 %
Prated	5.10 kW	4.90 kW
SCOP	4.74	3.40
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C

Pdh Tj = -7°C	4.50 kW	4.40 kW
COP Tj = -7°C	2.86	2.21
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	2.70 kW	2.70 kW
COP Tj = +2°C	4.56	3.50
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	2.10 kW	1.90 kW
COP Tj = +7°C	6.55	3.85
Cdh Tj = +7 °C	0.933	0.955
Pdh Tj = 12°C	2.50 kW	2.30 kW
COP Tj = 12°C	10.27	6.09
Cdh Tj = +12 °C	0.910	0.942
Pdh Tj = Tbiv	4.50 kW	4.40 kW
COP Tj = Tbiv	2.86	2.21
Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	4.20 kW	4.10 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.49	1.92
Cdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	1.000	1.000
WTOL	68 °C	68 °C
Poff	22 W	22 W
PTO	22 W	22 W
PSB	22 W	22 W
PCK	0 W	0 W
Supplementary Heater: Type of energy input	Electricity	Electricity
Supplementary Heater: PSUP	0.90 kW	0.80 kW
Annual energy consumption Qhe	2239 kWh	3002 kWh

EN 14825 | Cooling

	+7°C/+12°C	+18°C/+23°C
Pdesignc	5.43 kW	
SEER	4.77	
Pdc Tj = 35°C	5.43 kW	
EER Tj = 35°C	2.79	
Cdc Tj = 35 °C	1.000	
Pdc Tj = 30°C	4.15 kW	
EER Tj = 30°C	4.00	
Cdc Tj = 30 °C	1.000	
Pdc Tj = 25°C	2.81 kW	
EER Tj = 25°C	5.65	
Cdc Tj = 25 °C	1.000	
Pdc Tj = 20°C	2.07 kW	
EER Tj = 20°C	7.40	
Cdc Tj = 20 °C	0.921	
Poff	22 W	

PTO	0 W
PSB	28 W
PCK	0 W
Annual energy consumption Qce	683 kWh