

Subtype i-290 0112

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 0112
Registration number	ICIM-PDC-000209
Heat Pump Type	Outdoor Air/Water
Refrigerant	R290
Mass of Refrigerant	1 kg
Certification Date	31.08.2023
Testing basis	V12

Model i-290 0112

Model name	i-290 0112
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 12102-1 | Average Climate

	Low temperature	Medium temperature
Sound power level outdoor	59 dB(A)	59 dB(A)

EN 14825 | Average Climate

	Low temperature	Medium temperature
η_s	192 %	140 %
Prated	9.60 kW	9.40 kW
SCOP	4.88	3.59
Tbiv	-7 °C	-7 °C
TOL	-10 °C	-10 °C
Pdh Tj = -7°C	8.50 kW	8.30 kW
COP Tj = -7°C	2.93	2.17
Cdh Tj = -7 °C	1.000	1.000
Pdh Tj = +2°C	5.50 kW	5.10 kW
COP Tj = +2°C	4.61	3.42
Cdh Tj = +2 °C	1.000	1.000
Pdh Tj = +7°C	3.70 kW	3.40 kW
COP Tj = +7°C	7.01	5.10
Cdh Tj = +7 °C	0.958	0.967
Pdh Tj = 12°C	4.40 kW	4.30 kW
COP Tj = 12°C	9.33	5.93
Cdh Tj = +12 °C	0.953	0.970
Pdh Tj = Tbiv	8.50 kW	8.30 kW
COP Tj = Tbiv	2.93	2.17

Pdh Tj = TOL or Pdh Tj = Tdesignh if TOL < Tdesignh	8.10 kW	7.80 kW
COP Tj = TOL or COP Tj = Tdesignh if TOL < Tdesignh	2.59	1.90
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	1.50 kW	1.60 kW
Annual energy consumption Qhe	4069 kWh	5410 kWh